CENTIMETERS



14:1

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# A SELECTIVE MICROFILM EDITION PART V (1911–1919)

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Thomas A. Edison Papers

at
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# START

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EDISON GENERAL FILE SERIES

1919

## Edison General File Series 1919. Edison Portland Cement Company (E-19-24)

This folder contains correspondence and other documents relating to the business of the Edison Portland Cement Co. (EPCCo). Among the items for 1919 is a 25-page report by consulting engineer Cornelius C. Vermeule on "Remodelling Steam Plant by Stages," bearing numerous annotations by Edison. Other correspondents include retired EPCCo president Walter S. Mallory; vice president Harold M. Scott, who resigned in September; and Martha M. Darling, a relative of Edward A. Darling, the Stewartsville mill manager who was killed in a plant fire in 1903.

Approximately 50 percent of the documents have been selected. The unselected material includes routine company correspondence, other letters not relating to EPCCo business, and documents pertaining to a phonograph presented to an "old reliable steam engineer," George Kaufman.

January 20.1919.

Dear Mr. Mallory:

results in our search for "ideo prisms. On Thursday and Friday last I had an expert go over to New York, and visit every instrument maker to try and pick up even an odd one if he could, but we had absolutely no saucess. He tells me that there is a great not success. He tells me that there is a great of the could be the success of the country of the places that he visited. He was a success that he visited. He was connected with the U. S. Haval Observatory for many years and is well acquainted with optical subjects

In addition to this, we have had another one of our men, Mr. S. 6. Warner, telephonins and personally making inquiries in other Cities, but thus far has only been able to pick up one liked primes and that would not be very good because it is so old that the Canada belsam is very much dissolved. The object when the control we have the control to the control with the control was and recement it, but as you know this might be counsidered precarious.

I have written to quite a large number of the concerns in different localities, but up to this time have not received-any replies that gives any occuragement whatever. I wrote a special letter from Mr. Edison to John A. Breshear of Pittsburgh. They are very warm personal friends, and if there is any non man that could obtain semething that he santed from Mr. Phythith the Brashear plant is tied up for all of this year on special Government work and they could not take on an item from outside under any circumstances.

I am sorry to disappoint you, as I was expecting to show you a more satisfactory result.

".H.MEADOWCROFT.

OFFICES
NEW YORK
, BOSTON
PHILADELPHIA
STEWARTSVILLE, N.J.

# EDISON PORTLAND CEMENT CO.

PLANT NEW VILLAGE, N.J CAPACITY

8 WEST 401 STREET

NEW YORK

January twenty-second

1

un

Dear Mrl Meadowcroft:

I am enclosing herewith sample of

spodumene which came from Mew Maxico.

Will you kindly deliver it to

Mr. Edison promptly, as he is anxious to make a test on

1t?

erult.

TRADE MARA

Enclosure

Ir. W. H. Meadowcroft,

g/voon\_

530 Palm ave. Fre suo Cal. 11, 1919 Mr. Edison 5 duffed a Darling of his life fat My brother left Schares in the Odison Bortland Cement Co. to the leveral members of his family, some of doliel and still in their possession we have wondered why in all these years nothing more Hugible than the notices the annual Stockholders meetings, has come to us. Our Mother Mrs. augusta. 4. Dailing of Nowayon, Com.

who is at present on a visit with me in Very Respectfully Tresus, Cal. friedo her-Marka M. Darling self in greatly reduced cilcumstances and we would be slad to know whether the shares Explain that the Co has are worth anything me worm any time at the present trucke or ever will be any fluid but useless papers to us, p. 1. never pand or earned a althousering the high reports in spirite they devidend but is still running a may do proffer held you, I take the very reat so some day liberty of writing this personal letter ouly with the relice taut Corlsent of his plear old I would be very grateful for a

March 25,1919

Mrs. John Darling. 530 Palm Ave.. Fresno.Cal.

Dear Madam:

Your letter of March 11th, in regard to the Edison Portland Cemont Co. has been received. The Company has never earned or paid a dividend, but it is still operating and may do so some day.

Yours very truly,

Edison Laboratory.

A/6807.

# EDISON PORTLAND CEMENT CO.

GENERAL OFFICES 8 WEST 401" STREET

NEW YORK CITY

SALES OFFICES EW YORK CITY, N.Y. DOSTON, MASS.

-

September 5th, 1919.

Hr. W. H. Meadowcroft, Scoretary to Mr. Edison. Orange, New Jersey.

Dear Mr. Meadowcroft:

Attached you will find request from our very good agents , the Cuba Commercial Co. for an autographed photograph of Mr. Edison for their new office in Santiago, Cuba.

We have been very anxious to build up our business in the eastern end of the Island because of the new local plant near Havena, which sooner or later, will control the major portion of the business in Havana. To the eastern end of the Island, which is the big sugar country, we can reach almost as cheaply as they, so naturally we want the maximum solicitation in that territory.

If you can accommodate us, I am sure Mr. Molanphy, President of the Cuba Commercial Company, will be very grateful to Mr. Edison for the photograph and you know that I too will appreciate this co-operation.

Vice-Fresident and General Sales Manage

HLIS/JN

lease hootine segn phalo a Kellers at doll lutograph only never traves ten or blothing paper at

#### [ATTACHMENT/ENCLOSURE]

P. O. Box No

TELEFONO A-8849 CABLE: "GUCOMCO"

AGENTES: G. AMSINER & CO, INC. MEXICO HIDE CO, INC. Cuba Commercial Co. Munzanu de Gonez, 402-403.

M. V. MOLANPHY.

Kabana/Cutu

August 26, 1919.

Edison Portland Cement Co., Nº 5 West 40th St., New York City.

Dear Sirs:-

would you be good enough to send us a recent picture of Mr. Edison, for our Santiago office.

Very truly yours,

CUBA COMPERCIAL COMPANY

By Mola work

President.

They desire in autographed photo. You may send same direct to Cus Commercial Co.
Calle Itallo 27
Santingo Cubas

# EDISON PORTLAND CEMENT CO.

GENERAL OFFICES 8 WEST 4017 STREET

BALES OFFICES NEW YORK CITY, N.Y. BOSTON, MASS. PHILADELPHIA, PA. NEW YORK CITY

September thirtieth

#### PERSONAL

Mr. Harry F. Miller, Edison Laboratory, Orange, NEW JERSEY.

Dear Mr. Miller:

In leaving the company toporrow, I want to thank you and through will. Meadeweroft, Mr. Dykomon, Mr. Schultz and others at Orange who have been so courteens and kind to me during the past three years or more that I have been a member of the SUSION organization.

It is with with most sincere regret that I have tendered my resignation, but I feel that I have been able to leave an organization which is second to none in the industry, and one who will fulfill for Mr. Edison his expectations and desires which I would like to do.

I am with most sincere regards.

General Sales Manager.

HMS\*C



# Edison Portland Cement C.

8 WEST 40TF ST., N.Y. CITY

HARRY F, MILLER
VCC-PRESENT AND
FRANCIA ESSUAN
WILHOT D. CLOOS
WCC-PRESENT AND
SCORM, SHES BARRES
BERNARD STEUER

PICE OF PRESIDENT

October 10, 1919.

Mr. Thomas A. Edison, Llewellyn Park, West Orange, N.J.

Dear Mr. Edison:

Response

7cug

Orane, William H. Shelmerdine and Thomas M. Thompson, Directors, a special meeting of the Board of Directors of Edison Fortland Coment Combuny is called to be held on Montay, Orboto 1 Edison 1 Company, Edison A.M., at the principal office with Company, Edison Laboratory, Luke side Annua, West Orange, Hew Jersey.

Mr. Stephen B. Mambert, President, states that in view of the importance of the matters to be discussed at this meeting it is highly destrable that every member of the Board of Directors be present.

Yours very truly,

Secret

JCL/L

CLASS OF SERVICE D	ESIREO
Telegram	lx.
Day Letter	
Night Message	
Night Letter	
Patrons should mark ar site the class of service OTHERWISE THE M WILL BE TRANSMITT FULL-RATE TELED	X cppo- desired; ESSAGE ED AS A RAM

# WESTERN UNION

Send the following message, subject to the terms on back hereof, which are hereby agreed to

NEWCOMB CARLTON, PRESIDENT

THOMAS A. RDISON						
	NEW	YORK	OCTOBER	11	1919	19
LIEWRLLYN PARK		_				
`		Fil	le .			
WEST CRANGE NEW JERSEY		. —				-

IN VIEW OF THE FACT THAT IT WILL NOT BE POSSIBLE FOR ALL DIRECTORS TO BE PRESENT AT MEETING CALLED FOR MONDAY MISTER MAMBERT HAS ASKED THAT THE CALL BE CANCELED

EDISON PORTLAND CEMENT COMPANY J C LA RUE SECRETARY

rge to EDISON PORTLAND CEMENT CO.

31 words WDC/L

11:15 a.m.

REMODELLING STEAM PLANT BY STAGES.

Oct. 16, 1919.

C. C. Vermeule,
Consulting Engineer.

Sk. Edison — In Vaunale sout two copies of his export. I am ending our tonight Maurbeet vofor/19

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Operating Expenses per day and per bbl.

Labor saving by Stages

## Cornelius C. Bermenle

CIVIL ENGINEER
38 PARK ROW

New York, October 16, 1919.

Thomas A. Edison, Esq.,

Dear Sir:

Following up our conversation of Saturday, Oct. 11th, I visited the cement plant on Monday and made a personal examination of all the conditions which we had discussed.

### CONDENSATION IN STEAM PIPES.

As noted in my report, my figures of condensation were taken from a report made to me by chief engineer Kaufman, but an examination of the steam lines indicated that they were in fairly good condition. Mr. Kaufman, in reporting the condensation, had not separated steam use for heating in the buildings and some other small items. An examination of the steam pines shows the covering to be in good condition. Allowing for a loss of 50% over that which would apply to perfect covering. I estimate that the loss in mains should not exceed 870 lbs. per hour, or 30,880 lbs. per day. There is much additional loss in small steam piping and some leakage, and also a very considerable amount of steam used for heating in the buildings which I have no means of closely analyzing at present. It is evident that much of this steam must be used, although there may be some economy, such as the installation of a separate heating plant at the packing plant. Open gram os in will bring heat . The drop in pressure from the boiler room to Engine #1,

was carefully observed with a test gage and averaged 8 lbs. on the day of my visit. This is not excessive. It corresponds to a theoretical drop in efficiency at the engine of not exceeding.

Since we have an indimited once for a reserving the survey to me a circulating Continuing to Carry the water to Condumer + powers at Creek to supply loss due to Evaporation that the total powers required would be loss than his Estimate, We could have a Reserving looking towards all mine along treek. That loss in Summer would give family Cold water

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A COMMENT OF THE STATE OF THE S

non denoticle de couver and de tent page our even pat a tent on the try of the visit. This he mad concerns the companyone of a thomselves from he difference of the major of the control of 2% and no material saving is to be made in this. I am of the opinion that a part of the 20 tons of coal per day reported by Mr. Kaufman, represented coal expended in keeping up banked fires, some steam used in running the feed pump and general lesses of heat due to low fire of boilers. I can account for about 176,880 lbs. of steam per day as against 313,000, which was indicated by his reported coal consumption. Just as Ylbern 18.

# LOSS OF POWER DUE TO LOW VACUUM.

I found conditions due to deficient cooling water worse than they had previously been. The amount of feed water during the ten days preceding my visit had averaged 2,886,800 lbs., being somewhat higher than our previous estimate of 2,661,592 lbs. per day, which may have thrown some additional work on the condenseers. The matter of loss of power and efficiency due to poor vacuum, and the matter of a proper load for the various engines, may well be considered together.

# I found the following conditions at the engines: ENGINE #1 -- ROCK CRUSHER:

The steam gage read from 135 to 140 lbs. The vacuum gage from 20½" to 22". The load on this engine is variable, the range being from about 200 horse power upward to over 550. The indicator card shows some wire drawing of the steam and a considerable drop before the cut-off. Working at overlead, the pressure at the end of the stroke is high, showing deficient expansion, the cut-off being about 5/7 of stroke. It does not appear to me that any additional power is needed here, but a more even load on the crusher would be desirable, and the output can be increased by running an additional number of hours per day.

The engine cannot work at good economy, because of the fluctuating load.

I estimate the power lost here due to a vacuum averaging 21.7 inches as compared with a vacuum of 28 inches, is 65 horse power, practically constant at all loads. In order to appreciate the conditions under which this and the other engines are working, and the possibility of increasing their power output, I have summarized conditions for all the engines at various points of cut-off in a table which follows later.

# ENGINE #2 -- CHALK PLANT.

The steam gage rend 140 lbs., the vacuum gage 19½".

The indicator cards show a cut-off at 57% of stroke, with a rather high pressure at the end of the stroke. It is evident that the engine is overloaded, but it cannot deliver the corresponding overload in power because of the low vacuum. I estimate the loss in indicated horse power, due to a vacuum of 19 inches as compared with 28 inches to be 101 horse power. This engine runs two tube mills, and its power output at various points of out-off end with 28 inches vacuum and 19 inches vacuum, are given in the later table referred to.

# ENGINE #3 -- FIRE GRINDING.

Steam gage read 144 lbs. The vacuum gage 194 inches. The card shows a cut-off at 65% of stroke. The engineer says it usually runs at 50% of stroke, but this no doubt varies with the vacuum. As in the other engines, the pressure at the end of the stroke is high, showing poor expansion due to the late point of cut-off. The loss of power due to a vacuum of 19.25 as compared

with 28 inches, amounts to 94 horse power.

# ENGINE #4 -- COAL PLANT.

This single cylinder engine cuts off at 50% of stroke, and the card shows a drop in pressure of nearly 20% to the point of cut-off. The engine works against a back pressure of 6 lbs. (some times said to be 10 lbs). It is evident that the steam consumption per horse power is high. I estimate it at 30 lbs., but the exhaust steam is used for drying coal; consequently, the economy cannot be considered bad, although with lighter loading, or with present loading and a larger cylinder giving an earlier point of cut-off, the steam consumption per horse power can be much improved. I estimate at present it is 30 lbs., and that it can be reduced to 25 lbs. There can be no increased power due to improved vacuum at this engine, and in fact unless the cylinder is increased, the load upon the engine should be reduced about 50 horse power.

### ENGINES # 5, 6, & 7:

The gages read, steam 131 lbs., vacuum 25% inches. The above vacuum as compared with 28 inches, shows a loss of 130 horse power for the three engines.

The vacuum in summer is said to range from 20 to 22 inches. Calling the average 21 inches, the loss of power under such conditions would emount to 259 horse power for the three engines.

However, the loss on Oct. 13th as above estimated, should represent about average conditions, and has been used by me hereafter.

The total loss of power in engines \$1 to \$7\$ inclusive, due to low vacuum, therefore amounts to 389.4 horse power. It

must not be assumed, however, that this amount of power can be added effectively to the output by improving condensation. The tables hereafter given will show the actual conditions under which the engines are working. Additional power cannot be well used at the crusher engine, as increased capacity there will be obtained by running increased number of hours per day. Also at Engines #2 and #3. The present output of the engine is the amount of power required to run the machinery connected up, and the additional power which could be produced by improved condensation could not well be used effectively. In all these cases, the same is practically true with Engines #5, 6 & 7,) improved condensation should be applied in order to produce the present power output with increased steem economy, and not to increase the load on the engines which are already badly overloaded.

the following table shows the output of each engine and its steam consumption per horse power at various points of cutoff. In each case, except \$\psi\$1, the latest point of cut-off is the
one which applies to present conditions. In case of \$\psi\$1 engine, the
load varies through all the different points of cut-off given in
the table.

POWER OUTPUT AND STEAM CONSUMPTION OCT. 13th.

Engine. Cut-off. 1. H. P. Steam Pr. H.P. H.P. H.P. H.P. H.P. H.P. H.P.				_	**	found
33% 322 10.2 305 20.	Engine.	Cut-off.		Steam per	I. H. P.	Steam per H.P. Hr.
	No. 1	33%	322 460		257 395	21.5 20.6 20.0 20.0

		Vacu	um 28" Steam per	Vacuum	as found. Steam per
Engine.	Cut-off.	I. H. P.	H. P. Hr.	I. H. P.	H. P. Hr.
No. 2	33% 50% 57%	635 895 955	16.0 17.5 17.5	534 794 854	18.5 19.5 19.5
No. 3	33% 50% 65%	635 895 1030	16.0 17.5 18.0	541 801 936	18.5 19.5 20.0
No. 4	50%	300	30.0	300	30.0
5, 6,7	25% 40%	E. H. P. 2610 3256	17.0 17.0	E. H. P. 2480 3126	18.0 18.0

From the foregoing table, I estimate the following saving in steam, which would be effected by a vacuum of 28 inches as compared with the vacuum actually found on Oct. 13th.

				;	Lbs. of Steam per	Day.
Engine No.	1	-		-	11,000 40.992	
	3	-	-	-	40,992 38,448	
	5, 6, 7	<del>)</del>	•		78,144	
			Total	saving	168,584	

The above assumes the power output of the several engines to remain as at present. However, the additional amount of coaling water required if pumped up to the present cooling reservoir, will consume 170 horse power of electric power at the pump, in addition to what is now required, but if an additional electric generating unit is not installed in the steam plant, this will be an added load on Engines #5, 6, & 7, which are already overloaded. For these conditions, therefore, it appears to me necessary to install a steam driven pump to pump the hot water back to the cooling reservoir. It will be better to make this of sufficient capacity to pump all of the water now being pumped, together with

When we have the continued

additional water, which require (285) horse power. This measure will lighten the load of Engines 5, 6, & 7 by about 115 horse power, and I believe is the only practicable way to provide for numping the cooling water. Such an engine will require not less than 20 lbs. of steam per horse power hour, or 136,800 lbs. per day. The lightening of the load on Engines #5, 6, & 7 will save 49,680 lbs. of steam per day, leaving the net additional requirement 87,120 lbs. of steam per day, which must be deducted from the foregoing saving of 168,584 lbs., leaving the net saving 81,464 lbs. per day. With an evaporation of 7 lbs. of steam per pound of coal, this will save 11,638 lbs. of coal per day, or 5.2 tons at \$5.50, or \$28.60 per day, which will represent about all that it is practicable to save by improved condensation under the conditions which I have above assumed, namely, the use of the present Climax boilers to make up the amount of steam required over and above that produced by the waste heat boilers, and the retention of the present engines, the whole working at a capacity of 5.100 bbls. of cement per day.

The cost of making the necessary changes to produce 28 inches vacuum, cannot be accurately estimated until my surveys and investigations have been completed, but assuming it will cost \$65,000. the saving above named, \$28.60 per day, will re-pay the cost of the improvement in 1,750 days.

STEAM CONSUMPTION OF PRESENT ENGINES Oct. 13th.

Chief Engineer Kaufman furnished me a record of feed water measurements from Oct. 1st to 10th, which showed an average of 2,886,800 lbs. per day. Estimated from coal consumption and

His about bearing as a solow many as a solow m

boiler efficiency, the average for 1918 was 2,516,322 lbs. of steam per day. From my survey of actual conditions Oct 13th, I estimate the power output of the engines and their steam consumption as per the following table:

### OUTPUT AND STEAM CONSUMPTION.

Estimated on Actual Conditions Oct. 13th:

Engine. I. H. P.	H. P. Hrs. per day.	Lbs. steam per H. P. Hr.	Lbs. steam per day.	
No. 1 400 No. 2 854 No. 3 801 No. 4 300 Compressor 83	4,400 20,496 19,224 7,200 2,000	20.0 19.5 19.5 30.0 18.0	88,000 399,672 374,868 216,000 36,000	
#5, 6,7 3,256	78,144	18.0	1,406,592	
All engines5694	131,464		2,521,132 `	
Feed pumps	52,000			
Heating, condensati	100,000.			
Condensation in mai		30,880		
			2 704 012	

The foregoing steam consumption is somewhat less than the average feed water used from Oct. 1st to 10th, but it is almost exactly a mean between that estimate and the estimated boiler evaporation in 2918. It will be observed also that the table given in my previous report was based upon the rated horse power of the engines, and did not take into account overload, average load, or the vacuum as actually recorded Oct. 13th. Nevertheless, the variation between this and the previous estimate of the total steam consumption per day is not large, that estimate having been 2,661,592 lbs. The difference is in the distribution of the steam.

The foregoing table will be used hereafter in determining

how the waste heat boilers will work in connection with the present Climax boilers. The total consumption of steam being practically the same, all previous estimates as to saving in boiler installation, hold good without change. I am advised however, that coal will actually cost next year \$5.50 per ton, which will increase all coal saving as given in my previous report by 10%.

### IMPROVEMENT BY STAGES.

Following our conversation, I have given further consideration to the possibility of a more gradual improvement of the plant, taking it step by step, and I shall now endeavor to point out what can and what cannot be done at each stage of the improvement.

There is but a small saving possible due to improved condensation, if the engines continue as they are, but I shall consider making this improvement at once, as it will better operating conditions and will in any case be necessary for steam turbine overation.

- Installation of waste heat boilers to be supplemented by a part of the Climax boilers, the power output to remain unchanged, and the cement output estimated at 5,100 bbls. per day.
- Addition to stoker fired boilers, power output and cement output, as before.
- Addition to engine capacity needed to make the operation of the plant at present capacity more reliable without increasing output.
- Addition to a turbo-generator of 2,000 horse power, the present engines being continued in use and the output increased to 6,300 bbls. per day.

 Increase of turbo-generator capacity to 4,000 horse power, with present engines #1, 2, and 3 held as reserve, and the others continued in use.

# ADDITION OF WASTE HEAT BOILERS ONLY.

The capacity of Mill 5,100 bbls. Mean effective horse power as at present:

The cost of this improvement will be \$327,500. The saving in coal will be that due to the generation of 1,440,000 lbs. of steam per day at 7 lbs. of steam per pound of coal equals 91.8 tons of coal at \$5.50, or \$504.90 per day.

The saving in labor I have estimated on the basis of continuing five Climax boilers under fire. Ordinarily, four boilers would be sufficient to produce the amount of steam needed over and above that produced in the waste heat boilers, but occasionally one or more roasters may go out of service, and it is necessary to provide for the taking up of the load promptly when this occurs. With the Climax boilers, this cannot well be done unless five boilers are kept under fire. At the present time we have 44 firemen, and ash handlers, in the boiler plant. After the waste heat boilers are installed, we shall need 28 men in the Climax boiler plant, and 14 men in the waste heat boiler plant, or a total of 42 men. There would, therefore, be a saving of two per day, making the total saving in coal and labor \$513.70 per day.

The improvement of condensation, while it adds but little to the saving, should be provided for for the reason that it will enable the engines to deliver their load under better conditions.



\$542.30, 46% Div

The cost and saving of the improvement up to this stage, will be as follows:

Cost. Saving per dev.

 Cost.
 Saving per day.

 Waste heat boilers
 \$327,500.
 \$513.70

 Condensation
 50,000.
 28.60

Total.... \$377.500.

This is based upon the same amount of steam being used as at present. The plant will not work under conditions favorable to economy, for the reason that the full pressure cannot be maintained on the waste heat boilers as the entire pressure must come down to a point which can be safely carried by the five Climax Boilers retained in use, which will not exceed the present pressure Purthermore, a high derree of super-heat cannot be used.

It will be noted that reduction in labor is small, practically only two men. I am advised that it is becoming increasingly difficult to obtain firemen at the plant. It is evident that the firemen are of low grade, and are not interested in their work and not disposed to listen to complaints or suggestions for the betterment of the boiler service. Also the tendency of wages is constantly upward.

All of the engines are now working under conditions which make it extremely difficult to take down and overhaul any engine, or inspect the condition of cylinders, valves and piston rings, or to tighten up journals. They are and must be constantly operated at overload capacity.

These considerations of labor and of engine conditions
have an important bearing upon the efficiency of the foregoing
stage of development of the plant, and they cannot very well be

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measured in terms of money, as they affect to a considerable degree the efficiency of the plant as a whole. It is unquestionably desirable to reduce the number of men in the boiler room, and also to lighten the load on the engines for other reasons than mere money saving in the power plant.

### ADDITION OF STOKER FIRED BOILERS.

For the reasons above stated, I consider this to be logically the next step. It will effect a much larger saving in labor, will enable us to raise the steam pressure to any point desired up to 200 lbs., and because of the elasticity of the stoker fired boilers and their ability to promptly take up and carry a large overload, they will work much better in conjunction with the waste heat boiler. Furthermore, this overload can be taken up without the addition of men to the boiler room force, which will be very small with the stoker fired boilers. The consumption of steam remaining as before, the coal consumption will be reduced owing to the fact that while the stoker fired boilers are working at overload, the evaporation will be increased from 7 lbs. to 8 lbs. of steam, representing a saving of 1/7 of the cost of coal used in Glimax boilers, or 972.13 per day.

The saving in labor will be represented by a reduction of the 28 men required for the five Climax boilers to a force of three men required by the stoker fired boilers, or 25 men, 8 hrs. equals 200 hrs. © 55% equals \$110. per day, making a total saving in coal and labor of \$182.13 per day. The cost of installation will be \$120,500.

Steps 1 and 2, therefore, give us the following:

Thus far we have effected a saving in coal, but not in the amount of steam required, except the comparatively small amount saved by improved condensation, which is offset however, largely by the fact that we must operate the hot water pumps by steam, which leaves us on that account only a net saving of 81,464 lbs. of steam per day.

We have not increased our power output which is limited by engine conditions. We have improved by condensation, the working conditions at the several engines, but if we attempt to take advantage of the increased amount of power which might be produced thereby if we should continue to work our engines at heavy overload, we find that this power will be at points where it will not be effective. We do not need increased power at the crusher engine, for reasons already stated. Engines #2 and #3 also have a definite load, and the additional nower which could be produced there cannot well be used, as it will not be sufficient to add other mills. This brings us to a consideration of the problem how to produce increased power with improved engineeconomy. Let us consider where this power will be needed. With the capacity of the mill remaining at 5,100 bbls, per day, I estimate that simply to improve working conditions, and make them more reliable, we should provide as follows:

50 horse power for reducing load on Engine #4, 400 horse power for reducing load on Engine #5, 6, & 7, 170 horse power for driving the pump for returning hot water to the codling tower, 200 horse power for general use in driving conveyors, elevators, and other handling about the plant

820 horse power additional in all.

If we wish to increase the capacity of the mill to 6,300 bbls. and to operate under proper load conditions at such increased capacity, we should add about the following:

850 horse power for two tube mills, 285 horse power for returning hot water to cooling tower, 50 horse power for reducing load on Engine #4,

50 horse power for reducing load on Engine #4, 400 horse power for reducing load on Engines #5, 6, 27, 200 horse power for general use about the plant

1785 horse power in all.

#### ADVANTAGE OF ELECTRIC DRIVE:

The above statement of the points at which the additional power will be required, and the amount of such power, indicate that it should be supplied by electric drive. It cannot be supplied by steam engines without adding a number of units which will work at relatively low economy and require additional attendance. I do not disagree with your point of view that electric power cannot be generated and distributed to points of use with less loss than that due to engine friction and betting and shafting losses, where conditions are such that the engine load can be thus applied to drive the necessary machinery, but if we assume a larger unit in a central station, such as a turbo generator which can produce power with a low consumption of steam per horee power hour, with transmission to motors at points of use, the economy of the whole will be materially greater than is possible

for abrancing have the Engineer

record continued ()

with a direct steam drive. Incidentally, I will state also that I do not rely so much, in making this statement, upon the possibility of obtaining better steam economy in the turbo-generator than can be obtained in well designed Corlies compound engines, working with super-heated steam, and a good vacuum, but the first cost of the turbo-generator unit will be very much less. It in possible even at present relatively high prices, to purchase such a unit at about \$0.5 per horse power, including turbine and generator, whereas even at low prices, it was never yossible to purchase a Corlies engine of high duty and economy, at less than \$15.00 per horse power, and the cost of installation is greater. If we are to use a Corlies engine with direct connected electric generator, the discrepancy in cost is still greater. Indeed at present prices, it will not be less than two and one-half times as much.

There is in addition to the actual power economy, another consideration which is of great importance in such a mill as ours, where the works are extended over considerable area and that is, the great flexibility afforded by electric distribution in that it enables us to meet changing conditions or temporary power requirements at any point promptly, and at low installation cost, by the installation of motors wherever they may be called for. This must result in very considerable economies in operating the plant through enabling us to take advantage promptly of any possible economy in handling material, or in other operations about the mill. It will have immediate application in adjusting our cooling system, enabling us to add pumps where

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needed. It is true that we now have electric distribution from the three engines, #5, 6 and 7, but these are already overloaded, and should not have anything added to the load, but on the contrary, should have their load materially reduced.

Because of the conditions stated, I can see no way to add to our power output which will be by any means so satisfactory as the installation of a turbo-generator with electric distribution and motors. This may be done in two ways. First, by simply adding a turbo generator of 2,000 horse power capacity in order to take up the loads above specified, all of our present engines to be continued in operation. Second, the addition of a turbo-generator of 4,000 horse power capacity, with electric distribution and motors, Engines \$5, 6, & ? to be continued in operation, together with Engines \$45, 6, & ? to be continued in operation, together with Engine \$4 at the coal plant, and the air compressor at the central power house. Engines \$1, 2 and 3, together with enough of the Climax boilers to supply them with steam, to be retained to be used to carry any possible future overload, which it may be desirable to take on for a temporary increase of the output of the mill to meet the exigencies of the business.

Which of these two plans shall be adopted, should be determined by their relative economy which will be affected largely by their first cost, but also by their operating efficiency. 
If we should add only the 2,000 horse power unit and then find 
later that another 2,000 horse power unit is needed, the cost of 
the two units will be very materially greater than the cost of a 
single unit of 4,000 horse power, due to greater oost per horse 
power of the unit, and much greater cost of installation.

#### ADDITION OF 2,000 HORSE POWER TURBO-GENERATOR.

We will consider first the installation of a turbogenerator of 2,000 horse power, the present engines to be continued in operation, the output of the mill remaining at 5,100 bbls. per day. I estimate the steam consumption with these conditions as follows:

2,000 Horse Power Turbo-Generator, Capacity 5,100 bbls.

Engine.	I. H. P.	H.P. Hrs.Daily.	Steam per H. P. Hr.	Lbs. of Steam per day.
1 2 3 4 Compresso	400 854 801 250 r 83	4,400 20,496 19,224 6,000 2,000	17.5 17.5 17.5 25.0 18.0	77,000 358,680 336,420 155,000 36,000
5, 6, 7 Turbo-Gen	E. H. P. 1700	40,800	16.0	652,800
erator All	1776	42,624	16.0	681,984
Engines	5864	135,544		2,297,884
Other use	8			182,880

Total Steam Consumption....

The output in horse power hours per day is the same as that given in the table on page 8, with the addition of 170 horse power for pumping hot water. The eaving in steen; amounts to 223,248 lbs. per day, which produced in the stoker fired boilers, will require 11.07 tons of coal at \$5.50. The saving is therefore, \$60.88 for coal. The above however, includes the saving due to improved condensation for which my previous estimates allowed \$28.60 per day, leaving \$32.28 saving due to the 2,000 horse power turbo-generator.

I estimate the cost as follows:

Turbo-generator, 2,000 H. P. Jet condenser and auxiliaries 2.000 H. P. of motors Switchboard Power transmission, installation, etc.

\$35,000. 7,500. 24,000. 7,500.

Total.... \$94,000.

2,214,424

#### Turbo-Generator 4,000 Horse Power.

If we install a turbo-generator of 4,000 horse power, we will not immediately procure the full economy due to such installation as it will give the best results at increased capacity of the mill. However, at present capacity, 5,100 bbls., we should run the turbo-generator full capacity, in order to make the best use of the steam from the waste heat boilers. Engines #1, 2 & 3, may be taken out of operation and held in reserve. Engines #5, 6, & 7 will be run at a load which can be carried by two engines, thus permitting one engine to rest and giving time for inspection and overhauling. Condensation will be somewhat reduced.

STEAM CONSUMPTION, TURBO-GENERATOR 4,000 HORSE POWER.					
Capacity of Mill 5,100 bbls.					
Engine.	I. H. P.	H.P.Hrs.Daily.	Steam per H. P. Hr.	Lbs. Steam per day.	
4 Compressor	250 83 E. H. P.	6,000 2,000	25 18	150,000 36,000	
5, 6, 7 Turbo-Gen-	1731	41,544	16	664,704	
erator All	3800	86,000	. 14	1,204,000	
Engines Feed Pumps Heating, e	tc.	135,544		2,054,704 52,000 100,000	

Total Steam Consumption.... . As compared to the previous table with 2,000 horse power generator, the steam saving is 307,140 lbs. per day, or 13.22 tons

Los all these figures costs installed are " " Leady to rin ano further Expenses than "

of coal at \$5.50, equals \$72.71. The saving in labor due to the reduced number of engines I estimate at 32 hours at 45¢, equals \$14.40, making a total saving per day of \$87.11. The cost of the larger installation I estimate as follows:

Engines and motors (see page 7, previous report)

\$165,400.

Add 1,000 horse power additional motors
Additional installation

12,000.

\$187,400.

Deduct extension to power house

32,000.

Corrected cost....

\$155,400.

The installation of the 2,000 horse power unit was previously estimated at \$94,000., therefore, the additional cost of the 4,000 horse power unit with motors is \$61,400.

## SUMMARY OF SAVING AT 5,100 BBLS. CAPACITY.

Waste heat boilers
Improved Condensation
Stoker Fired boilers
2,000 horse power turbo-generator
4,000 horse power generator additional

| Saving per Day. | \$327,500. | \$513.70 | 46 | 50,000. | 28.60 | 46 | 129,500. | 182.13 | 44 | 94,000. | 32.28 | 61,400. | 187.11 | 56

\$843.82

### ECONOMY AT 6,300 BBLS. CAPACITY.

At this capacity, there is increased economy from the waste heat bollers due to the fact that the same installation above allowed for, will generate 360,000 lbs. of steam per day additional to that already allowed for. The economy can best be shown however, by estimating the operating expenses per day and the operating expenses per barrel of output.

The load on the engines with 6,300 bblw. capacity, and

662,400

a generator of 2,000 horse power, will be such as to require that all of the present engines shall continue in operation. The consumption of steam is estimated as follows:

# Turbo-Generator 2,000 Horse Power, Capacity 6,300 Bbls.

Engine.	I. H. P.	H.P.Hrs.Daily.	Steam per H. P. Hr.	Lbs. of Steam per Day.
1 2 3 4 Compresso	400 854 801 250 r 83 E. H. P.	4,400 20,496 19,224 6,000 2,000	17.5 17.5 17.5 25.0 18.0	77,000 358,680 336,420 155,000 36,000
5, 6, 7 Turbo-Gen-	2850	68,400	16.0	1,094,400
erator All	1900	45,600	16.0	729,600
Engines	7138	166,120		2,787,100
Other stea	m as befor	re		182,880
				2,969,980

With a turbo-generator of 4,000 horse power, and an output of 6,300 bbls., we can hold engines #1, 2 and 3 in reserve, and the engine loads and steam consumptions will be as follows:

# Turbo-Generator 4,000 Horse Power, Capacity 6,300 bbls.

Engine.	I. H. P.	H. P.Hrs.Daily.	Steam per H. P. Hr.	Lbs. of Steam per Day.
Compressor 5, 6, 7 Turbo-Gen-	28สกั	6,000 2,000 68,400	25. 18. 16.	150,000 36,000 1,094,400
erator All	3738	89,720	14.	1,256,080
Engines 6921 166,120 Peed Pumps Heating & small auxiliaries Condensation in Mains				2,536,480 52,000 100,000 7,720
l				2 606 200

Comparing these two tables, it will be observed that with the same output in horse power hours daily, there is a

saving of 273,780 lbs. of steam per day, 13.6 tons of coal at \$5.50 equals \$7.4.80 per day. The saving in labor due to the smaller number of units to be operated, should be not less than 32 hours at 45% per hour, or \$14.40, making the total saving \$89,20 per day. The cost of the 4,000 horse power unit with motors is \$61,400. more than the cost of the 2,000 horse power unit. The cost of the larger unit will be repaid in about two years.

The following table present the operating cost per day and per barrel, first without interest, and second, with interest at 8% on the cost of the new equipment:

## OPERATING EXPENSES ONLY.

		Per Day.	Per Bbl.
Outr	out 5,100 bbls:		
1. I	resent plant	\$1,182.83	\$ .232
2. 1	Waste heat boilers and Improved		
	condensation	640.53	.125
3. 8	Stoker fired boilers	458.40	.089
3. 8 4. 2 5. 4	2.000 H.P. Turbo-Generator	426.12	.083
5 2	1,000 H.P. Turbo-Generator	339.01	.066
0.14	out 6,300 bbls:	337.01	
	2.000 H.P. Turbo-Generator	452,75	.072
2. 4	1,000 H.P. Turbo-Generator	363.55	.058
	OPERATING EXPENSES AND IN	PEREST AT 8%.	
	put 5,100 bbls:		
	Present plant	\$1,182.83	.232
2. Y	Waste heat boilers and Improved		
	condensation .	731.49	.143
3. 8	Stoker fired boilers	578.95	.114
	2,000 H.P. Turbo-Generator	571.80	.112
5. 7	1,000 H.P. Turbo-Generator	499.57	.098
,,,,,,	out 6,300 bbls:	777.71	,.
4.	2.000 H.P. Turbo-Generator	598.43	.095
5. 2	2,000 H.P. Turbo-denerator	524.11	:083
٠ '	4,000 H.P. Turbo-Generator	224.11	.003
i .			

The above steps are all progressive toward an ultimate complete plant, except #4, the 2,000 horse power turbo-generator. Choice must be made between this and #5, or otherwise two 2,000 horse power units must ultimately be added. The two units will

Low at out the water

cost \$32,600. more than the single unit of 4,000 horse power. It will be observed that the 4,000 horse power unit costs \$155,400. and it will save \$.031 per barrel; or at 6,300 bbls. per day, \$195.30 per day, which will repay the cost in 796 days.

While the foregoing table indicates progressive economy at each step of the improvement, I wish to again call attention to certain phases of the matter to which I have already directed your attention, and which have to do in a large measure with the economy of operation of the whole mill.

Concerning the labor situation, I have just been informed by Mr. Steuer that his labor turn over in the boiler room is about 2,500% yearly.

The effect of each of the foregoing steps upon labor in the boiler and engine room is indicated in the following table:

LABOR SAVING BY STAGES.

# No. of Men Necessary.

	Boiler Room.	Engine room and other.	Total
Present plant Waste Heat boilers Stoker fired boilers 2,000 H.P.Turbo-Generato 4,000 H.P.Turbo-Generato	44 42 17 r 17 r 17	14 14 14 14 10	58 56 31 327

It will be noted that the most marked reduction in boiler room labor comes with the introduction of stoker fired boilers. This is because of the discontinuance of the Climax boilers, and the substitution of mechanical firing. All of the table is based upon information given me as to the present amount of labor employed, and concerning the fourth step the use of a 2,000 horse power turbo-generator, it should be remarked that this introduces another unit in the main engine house, and while I have

assumed that the force employed there will take care of this additional work, this assumption may not prove true. If so, the comparison will be still more favorable to the substitution of a 4,000 horse power unit.

Reference to the two tables on page 20 will show that with the 2,000 horse power unit, there will be in all nine units in operation, whereas the second table shows that with a 4,000 horse power unit, there will be but six units in operation, three outlying units, namely, Engines #1, 2 and 3, will be held in reserve, which will materially reduce the engine room force.

The more important reason for installing the turbogenerator, however, is the need of additional power at several points about the plant.

While it is possible to develop the plant by stages for reasons which I have fully indicated heretofore, the development will not reach a satisfactory and economical stage until steps 1, 2, 3 and 5 have all been carried into effect.

Respectfully submitted.

CCV/RK.

Consulting Engineer.

### Edison General File Series

1919. Edison Pulverized Limestone Company [not selected] (E-19-25)

This folder contains correspondence and other documents relating to the business of the Edison Pulverized Limestone Co., which marketed the byproducts of Edision's cement production and delivered part of its output to his chemical plants at Silver Lake, New Jersey. The two letters for 1919 pertain to special pricing on an order for twenty-five tons of pulverized limestone.

#### Edison General File Series 1919. Edison Star [not selected] (E-19-26)

This folder contains unsolicited correspondence relating to the myth that Edison was responsible for a bright light appearing in the sky above Menlo Park. The two inquiries from 1919 both received a form-letter reply.

#### Edison General File Series 1919, Education (E-19-27)

This folder contains correspondence and other documents concerning all controls of policy of the control of the

Less than 10 percent of the documents have been selected. The unselected items include requests for advice that received a form-letter reply recommending college, an apprenticeship, or a correspondence school, depending on what the student could afford.

Danuary 3,1919.

Lewis W. Hopps, 178 W. 81st Street, New York, N.Y.

Dear Madam:

Mr. Edison can only offer advice in a very general way in reply to your inquiry of December 30th.

interested in electricity can propose to follow man interested in electricity can propose to follow man a corpor in that limits of the propose to follow man and the following man appendize course at one of the big electrical works, such as the General Electric Company, Schemectady, NY, and the other is by a correspon enc course from a good institution like the Intermaticanal Correspondence Schools, at Secanton, Re.

not now dascolated with the electrical industry, and at these Works we make only phonographs, phonograph records, storage and primary batteries.

Yours very truly,

Edison Laboratory.

A.6239.



RANGIS T. HOSSON, BUSINESS MANAGER ILLIAN D. WHITNEY, ASSIGNMENT EDITO ENRY R. LUCE, MANAGING EDITOR

NEW HAVEN, CONN

May 9, 1919.

Mr. Thomas A. Edison,

"Glenmont,"

Llewellyn Park,

Orange, New Jersey.

Dear Mr. Edison,

"Is a college education worth while?" This is the question the undergraduates are now asking. A choice of courses of study for next year must be made by the twenty-third of May and every one is thinking of a broad education.

But students are not qualified to answer the question.

The News, therefore, hopes to place before them the views of prominent men of the country on this subject.

would it not be possible for you to write a letter to us containing your views on the subject with possibly a suggestion as to what better use could be made of the time if you are not in favor of a college education?

We wish to thank you very much if you will favor us with a letter.

very truly yours,

gilbert Colgate, fr.

The Yale Daily News.

1919 TAE-Pero.

May 16,1919

Mr. Gilbert Colgate, Jr. The Yale Daily News, New Haven, Conn.

Dear Mr. Colgate:

You ask if, in my opinion,

"A college education is worth while".

If you want to be a lawyer, politician,

or writer, I answer Yes.

If you desire to enter the great industrial world, I answer No.

Yours very truly,

### [ATTACHMENT/ENCLOSURE]

You ask if in my openion

a Cakege Education is
worth white"

If you want to be a lawyer politician writer, Y answer yes

If you disire to enter the great industrial world

I amount No.

# The New York Evening Post

New York.

June I. 1919.

Ur. Thomas A. Edison.

West Orange, N. J.

Dear sir:-

I am writing a small volume for Marper ar " Opportunities in Outdoor Professions," hoping interest and profit to young men and women who are to improve their conditions in life. I want to have something of the opportunities in electrical engineering. Of course, you are a busy man, and I may be asking too much of you, but I certainly would be obliged to you, if you would give me a few words as to the opportunities this day and generation hold out to young folks in the electrical field; what sort of man or woman is going to succeed in any walk of line; practical training while at work as compared with studies beforehand at college or other school. I am sure a little expression, such as you could find time to write, would be of great benefit to thousands I hope to reach with this book, and certainly I would thank you for it. Yours very truly,

60 o. Alean

Editorial Rooms,

Ewening Post.

June 3,1919.

Mr. E. O. Dean, Editorial Rooms, The New York Evening Post, New York, N.Y.

Dear Sir:-

June let, and no received your letter of June let, and has requested me to say that he is so extremely busy on a line of special research that he really connot got his mind off the subject to wake anything. He, therefore, begs to be excused.

Yours very truly.

Assistant to Mr. Edison.

#### Edison General File Series 1919. Electric Light (E-19-28)

This folder contains correspondence and other documents relating to Edison's past work in the electrical industry, as well as inquiries and suggestions about electric lighting. Among the documents for 1919 are inquiries reparding the value of stock in the defunct Edison Electric Light Co. of Europe, Ltd. Also included are letters concerning Edison's shares in the Edison & Swan United Electric Light Co., Ltd.; the fortieth anniversary of the invention of the incandescent lamp; and the controversy between Edison and Frank J. Sprague over the proper attribution of credit for the development of electric traction. In addition, here are letters about the purported involvement of Edison and industrialist Henry Ford in a hydroelectric project. The correspondents include longtime Edison associates and electric company executives Samuel Insuli, George F. Morrison, and Arthur O. Williams; former employee Joe F. Atkins; journalist Harriet W. Corley; and consulting engineer Horace F. Parshall.

Approximately 50 percent of the documents have been selected. The unselected times consist primarily of inquiries, ideas, and requests about lamps, power transmission, and electrical problems, which received routine replies stating that Edison was no longer in this business and sometimes referring the writer to General Electric. Also unselected are informational inquiries about historical events and individuals, which were handled by personal assistant William H. Meadowcroft.

In Mindough whend for Am E.

PNEUMATIC SCALE CORPORATION LIMITED

BOSTON CHICAGO NEW YORKAND KANSAS CITY

TORONTO, CANADA

ADDRESS ALL COMMUNICATIONS TO MAIN OFFICE ORFOLK DOWNS, MA

FOR HANDLING, WEIGHING AND PACKING ALL CLASSES OF PACKAGE GOODS.

Thomas A. Edison, Orange, N. J.

Dear Sir:

We have noted with interest that the Governors of quite a number of our States, in their messages to the Legisletures, have recommended that the water power resources of their respective States receive attention and be developed for the welfare of the people.

An analysis of an interesting set of charts compiled by Mr. O. C. Merrill, Chief Engineer of the Forest Service, Department of Agriculture, together with a letter we recently received from him, graphically shows the enormous amount of undeveloped water power that is now going to waste. Mr. Merrill expresses the opinion that the development of our water power resources, at least in Western States, deour water power resources, at least in western States, de-pends largely upon industrial growth. We understand, how-ever, that electric power can now be transmitted distances in excess of 300 miles, and we labor under the impression that you recently have devised a method of accomplishing the above results. If we are correct in this understanding, any information which you may be in position to give us, concerning distances that power can be transmitted, we would appreciate receiving.

This Company has taken an active part in all conservation measures, and has advocated many reforms cover-We are endeavoring to ing all phases of conservation. work out figures showing how many tons of coal could be saved annually if the water power now wasted in the streams of our country could be utilized to light its otties.

Thanking you in advance for any information along these lines, we are

Yours very truly,

Dictated W.H.Pickering T.I.E.

A.B.C. CODE USED CABLEGRAMS'EATWIS NEW YORK? TELEPHONE"1997 CORTLANDT."

Law Offices

JOHN C ROWE. HERBERT H. FLAGO. PETER J. McCOY, JA. 30 Church Street/(cortlandt building)

New York/ Peb. 13,1919.

Ser Garage

William H. Meadoworoft, Esq.,

Laboratory of Thomas A. Edison,

Orange, New Jersey.

Dear Mr. Meadowcroft:

Referring to your telephone talk with me this morning, I find that the only scrap of paper in my files relating to Edison & Swan United Electric Light Company, Limited, is a form of indenture agreement dated back in 1891. I suppose that this document survived destruction, because someone thought it was an original document. However, it does not appear to have ever been executed. I enclose it herewith and will ask you to be good enough to acknowledge its receipt.

Yours very truly,

6562

JCR/ABT. (Encl.) M. 163.

February 14,1919.

John C. Rowe, Esq., 30 Church Street, New York, N.Y.

Dear Mr. Rowe:

Allow me to thank you for your prompt compliance with your premise to look up the Edison & Swan United Electric Light Company, funited, matter. While the form of indenture agreement which you kindly sent me does not have any lowring on the present inquiry. I am glad to have it for Mr. Edison's files, as it may be useful Ester on.

Yours very truly,

Assistant to Mr. Edison.

A/6562.

#### February 14, 1919,

Mr. Holden:

Here is a matter which Mr. Edison told me to submit to you for your careful consideration:

A little over 30 years ago Mr. Eilson's English patents on his electric lighting system were sold to the Kaison and Swan United Klectric Light Company. Limited, an English corporation. At that time braced lorgen & Company and Mr. Edicophy Proceed Norgan & Company.

We have no any of the original contract of sale, and up to this time I have been unable to get on track of a copy.

The Mison and Swan United Electric Light Company, Ltd. issued several classes of shares, namely A, or Preforence, shares; and B, or Deformed, shares; and B, or Deformed, shares, and it is with one of these classes that we have to deal, namely 22564 B shares, which were originally of the par value of fire Pounds each. of these, Mr. Edison received 928 shares. So far as Hr. Edison's recollection goes the remainder of the 22564 B shares were divided botween Drexel Morgan Company of Hew York and Drexel & Company, Philadelphia.

Let me say, in passing, that at Mr. Edison's request I went to see J. P. Morgan & Co. about two weeks ago, but they told me that neither of the present firms in Hew York or Philadelphia own any of this stock, but many years ago when there was a change in the personnel of the two firms the various stocks were taken by the retiring partners or their estates, and J. P. Morgan & Co. have no accurate record of these old transactions.

Ho dividends have ever been received by Mr. Edison on these B shares, and the matter hes lain dormant all these years. The reason why this ancient history is rovided at this time arises from the fact that Mr. Edison was called upon a few weeks say by the state of t

At this interview Ir. Gimmingham stated to Mr. Edison that there was now market for the B shares, and he had been authorized by the Brokerage fitm of Quilter & Oc., 32 Old Jewry, London, to cffer Three Shillings per share. In the course of the conversation, Mr. Gimingham spoke of the B shares as <u>Five Shilling</u> shares, whereupon Mr. Edison told him that his B shares were not Five Shilling shares, but were Five Found shares. Mr. Gimingham said he could not understand how that could be and Mr. Edison total that he would go to the Edfe Deposit box and get could not contain a control of the course of

It seems to me that we would be doing a lot of guessing unless we can get transparints of the two proceedings at which the capital stock was reduced. These Proceedings are referred to in the two foot notes on page 10 of the Memorrandum and Articles of Association. We could write to Captain Wagner, or our representative in London saling him to obtain transcripts of these Proceedings, which I assume must have that you may think it adviseble there. It can be obtained, and that is a copy of the original Memorandum and Articles of Association of the Zdison & Swan United Electric Light Company, Limited, this being the Company which originally issued the B shares, and the Articles of Association of would undoubtedly contain provisions for reduced on of stock.

I am sending you all the papers I have on this matter will you kindly keep them altogather and return them to me in due course. I think Br. Kaisen would like to have you go into this matter without delay, so that if he decides to sell his stook, he can take advantage of the present market.

February 20,1919.

Pneumatic Scale Corporation Ltd., Norfolk Downs, Mass.

Gentlemen: Atten: Mr. W. H. Doble, Treasurer:

Your letter of February 17th has been received. Mr. Edison has gone to his Winter home in Florida and is not expected to return for five or six weeks.

that last polling. I am able to inform you that last polling. I dison was out on a Campine Trip ration was one to an a Campine Trip ration commented upon the amount of power scing to waste in small streams, and he had quite some distression with Hr. Pord to the effect that these small streams or units of power about be conserved and connected up. The newspapermen got held of the and made a story of the company of the contract of the contract

Yours very truly,

Assistant to Mr. Edison.

A/6593.

Arldon

February 21, 1919

Mr. Meadowcroft:-

## RE: EDISON SWANN ELECTRIC COMPANY LTD.

In Mr. Holden's absence. I have gone over carefully the papers received with your memorandum of February 14th, and have also consulted Topham's Principles of Company Law, published in 1914, which is a small book on British company law which we received from Mr. Wagner some time ago and seems to be very good as far as it goes. according to Topham, where some of the capital of a British company has been lost, the company may reduce its capital by proper procedure including a confirmation by the court. The most usual form of reduction is an "all around reduction", that is, the lost capital is written off all the shares in proportion to their nominal value; but it may be written off one claus of shares and not off others. Neither form of reduction will be allowed if it is unfair to any class of charcholders. It also seems to be necessary that notice shall be given to the shareholders. According to the notes on page 10 of the Amended Memorandum, etc. of the Edison-Swann Electric Company, the B shares issued were reduced in May, 1904 from £5 to £2 - 10s. each, and in October, 1905 a further reduce tion was made of these B shares to five shillings each. These notes recite that in each case the reduction was duly authorized by the Court. See also Minute approved by the Court August 1. 1918.

Presumably, all the necessary formalities were complied with and the Court convinced that the proposed changes were fair. The reasons for the reduction would probably appear in the Court records. I do not believe any lawyer could give an opinion worth while on the possibility of setting aside this reduction without having these records before him. In view of the lapse of time which has occurred, however - it being now between thirteen and fourteen, years since the ond reduction was made - it would seem that the changes of upsetting this transaction are very small

While the present balance sheet of the Company shows as an asset an item of £390,432 - 8a. - 1d. as the cost of establishing the business, good will, remaining patents, etc., the Edison patents could not, under any proper system of accounting, be included in this item because they expired many years ago and should have been written off. Possibly, one of the reasons given for the reduction of the B shares was that they were issued for patents which at the time of the reduction had expired and had no further value. This is, of course, merely a speculation on my pert.

I suggest that if Mr. Edison is sufficiently interested to have a further investigation made of this matter, the papers be ment to Mr. Wagner with such other information se may be available, and Mr. Wagner requested to take the matter up with his London attorneys for the purpose of having them investigate the records and give an opinion as to whether anything could be done at this time to set aside this reduction or otherwise benefit Mr. Edison.

Henry Lanahan

arch 11 1919

Captain A. F. Wagner, 164 Wardour Street, London, W l England:

My dear Captain Wagner:

I have another little matter which Mr. Edison would like you to attend to.

Probably you are aware of the fact that some 35 years or possibly 36 years ago Mr. Edison's English patent, on electric lighting were disposed of the the Edison Swan United Electric Light Company, Limited. Associated at that time with Mr. Edison were the firms of Drexel-Morgan Company of New York, and Drexel & Company, Philadelphia.

The deal was made and the consideration was some each and 23,564 B Sharos of Five Pounds each, fully paid. These sharos were divided between the three American parties, and Mr. Edison still retains his propertion of them.

The name of the Company has recently been changed, to the Edison Swan Electric Company. A few weeks ago one of the Directors of that Company called to see Mr. Edison and told him that a certain firm of Broke's in London was willing to buy the S shares for 3 shillings per share. Mr. Edison said the par value of his shares was Five Founds each, fully paid, and the gentleman stated that equid not be. He went away with the

understanding that both he and Mr. Edison were to look up the matter and see how it stood.

A few days later Mr. Edison received a copy of the Articles of Association of the Edison Swan Electric Company. Ltd., on page 10 of which it appears that:

- (1) By Special Resolution passed on May 12,1904, confirmed May 30, 1904, and duly authorized by the Court, the above-named B shares were reduced to Two Pounds Ten Shillings per share.
- (2) Further, on the above-named page
  10, it stated that by Special Resolution passed October 12,1905, confirmed October 30,1905, and duly
  authorized by the Court, these
  shares were reduced to Five Shillings
  per share.

Then comes a further development in the matter. On Pebruary 27th, 1919, hr. Edison received notice of on Extraordinary General Meeting of the Company, which was to be held February 17, 1919, at which the following Resolution was to be submitted:

(3) "That the 23,564 B shares, Five Shillings paid, be consolidated into 5891 shares of One Pound each, fully paid".

At the foot of the above notice a further notice was given:

(4) That should the above Resolution be passed by the requisite majority the same will be submitted for confirmation at the further Extraordinary Meeting for the Company on March 10,1919, for the purpose of considering, and, if thought fit, confirming such Special Resolution.

Mr. Edison understand that under the English Corporation law, all Companies making any changes in reward to their Capital Stock must obtain an order of Court confirming the Resolution, and so far as we know these Court orders must be filed torother with the Minutes of the Proceedings, with the Registrar of Joint Stock Companies. I understand that the Special Resolution reducing the Capital of the Edison Swan Electric Company, Ltd. was confirmed by an Order of the High Court of Justice, Chancery Division, August 1 1918.

Mr. Edison is desirons of knowing the exect status of his sharm of stock in this Company, and wishes no to write and eak you to obtain copies of the Proceedings and Orders of Court in each one of the above cause, which I have designated as 1,2,3 and 4, and send them to us at your early convenience. Possibly it may be some little time before there will be an Order of Court confirming the Proceedings of the Meeting of March 10th, which I have designated above as 4. If so, you can send the other three slong and 4 later on.

I am sorry to have to inflict such a long letter on you, but think it is just as well to put you in possession of all the facts.

With kindest regards, I remain, Sincerely yours.

Assistant to Mr. Edison.

W

DUPLICATE COPY

AFR/GS.

March 31st 1919.

Mr. Wm. H. Hendoworoft,
Assistant to Tologo A. Edizon,
Laboratory of Thomas A. Elizon,
ORANGE, NEW JERSEY, U.S.A.

Dear Mr. Headoweroft.

On receipt of your letter dated March 11th a few days since, I visited Schernet House and having searched the files of the Edicer Svan Electric Co., gave an order for copies of the decreasity you require.

These have just come to hard and are on-

1. Order of Court dated 36th July 1904, confirming Resolution passed at Extraordinary Ordersk Resting of the Edison and Gaul United Kladvin Co. Ltd. held on 15th Ney 1904 and confirmed at Extraordinary General Resting held 37th Ney 1904.

S. Order of Court dated 6th March 1908, confirming Special Resolution passed at Extraordinary General Recting of the Edison 8 Earn United Electric 10th Editor 18 Earn United Electric 10th Cotober 1908, and confirmed at Extraordinary General Neeting held 30th October 1908.

3. Resolution passed at Extraordinary General Heeting of "A" Shareholders of Edison Swan Electric Co. Ltd., held 17th February 1919.

4. Resolution passed at Extraordinary General Meeting of "A" Shareholders of Edison Swan Electric Co. Ltd., held 17th February 1919.

5. Resolution passed at Extraordinary General Meeting of Edison Swan Electric Co. Ltd., held 17th February 1918 and confirmed at subsequent Extraordinary

### General Meeting held 10th March 1919.

in Nos. 3, 4 and 5 as above, no Order of the Course has yet been filed, but allowing for the would not of 100 time to clapse after the circle the Course val of time to clapse after the office of 100 h March, we make a first the Order of Course of 100 h March, we make you or June next, when I will make further search and forward you a copy as required by your paragraphs 3 and 4.

Trusting that in the meantime the enclosed copies will encore your requirements, and with kind regards, I remain,

. Yours truly,

Manager.

Copy to Mr. Stevens.

PN-361 75m 10-4-18

# EDISON LAMP WORKS

Harrison, H. J., Hay 1, 1919.

Hr. Headowcroft, Edison Laboratory, Orange, Hew Jersey.

Dour Sir:

sorring. I am a por talephone convergation of this concerning it. But of most the site of questions concerning it. But con and the theatre, particularly from the viewpoint of his interest in the electrical effects. This data is for use in an article on "Cheatrical Lighting" and the theatrest clut to Thomas A. Edison.

I wish to write this article from the correct point of view; and it is, therefore, necessary, as well as interesting, to know ir. Edison's attitude, whether he is a great enthusiast, is in-different, or cares nothing whatever for the theatre itself.

Since Ir. Edison's gifts to the theatri-cal world are the most important in the creation of its artistic offects, this subject will of course be of unusual interest.

Perhaps you can also tell me where to find anything which may have been already written upon this subject or of any other articles bearing upon any phase of theatried lighting which it might be well for me to read.

I will, of course, submit for your approval any article in which material derived from hir. Edison's answers will be used. Thanking you for your assistance, I am

Very truly yours,

Harriet Water Calle

DEPARTMENT OF PUBLICITY

HWC - KCS

. As not attend in take years too dead - sery found of Their, What is Mr. Edison's attitude toward the theatre? Is he a regular attendant, a casual attendant, or

does he rarely go? If Mr. Edison is interested in the theatre, what Musical M Elodona Excel + neds

Bort of plays does he particularly enjoy? sole use is along theatrical lines?

Mr. Belasco frequently speaks of the theatres great debt to Mr. Edison; have they been associated in any way? (i. e. Mr. Belasco and Mr. Edison.)

Does he follow the electrical effects upon the stage, either by attending the performances or otherwise.

Are there any plays, past or current, which have especially pleased him by unique and remarkable electrical effects, both from the scientific and the artistic point of view?

If so, will Mr. Edison comment on any of these?
A play interesting from the artistic viewpoint alone, which was effected by simple manipulation of ordinary lighting arrangements.

A play whose electrical effects not (b) noticeable to the layman yet skillful and remarkable from the electrical point of view in enhancing the mood of the play.

Did Mr. Edison see "The Unknown Purple," If so, will he comment upon this play? (In this play the heroe's most significant scenes take place when he is invisible, a purple spot light, appearing to perform the deeds for the man. Will Mr. Edison comment upon this utilization of a spot light as a here as anything significant in the increasing importance of light upon the stage.)

Does he believe that this phase of the theatre is still in its infancy, and will he predict anything which may be brought about in the future?

Will Mr. Edison comment upon Mr. Belasco's 10. utilization of light in connection with the theatre? all that I know is that Belooce is moder

w

# GENERAL ELECTRIC COMPANY 120 BROADWAY, NEW YORK

GEORGE F. MORRISON VICE PRESIDENT

May 2, 1919

Hr. Wm. H. Headowcroft, Laboratory of Thomas A. Edison, Orange, New Jersey.

Dear Mr. Meadowcrofts

appreniate very much your netter of may lat I appreniate very much your kindness in sending me this information regarding the Passato istalwire Company. I say wish to get in touch with ir, negland, President of this Company, some time in the near future, and if so, will take advantage of your kind offer to use your name.

lo volts. I note that the voltage at the base and Library is 116, and I will have some lamps of this voltage at this house and Library is 116, and I will have some lamps of this voltage made up and sent to you. This is a new lamp which we have dust developed. It has not been standardized or put on the market, however, but I brought them to the Old kinn, as I always try to keep him up-to-date on the latest in incandescent lamps.

With kind regards, I am

Yours very truly.

Sko 4 Thring

GFLI/FB

May 3,1919.

Mr. Geo. F. Morrison, General Electric Company, 120 Broadway, New York, N.Y.

Dear Mr. Morrison:

Hay 2d. In regard to the Pessais theth Vare Co., let me call your attention to the enclosed letters Cron Kr. I. W. England, the President. I have not the sighthest doubt that it. Region to the sighthest doubt that it. Region to the server principle of the sighthest doubt that it. Region to the server principle of the server of the serve

In resert to the Lamps which you brought to Mr. Edison I have them on my deal subject to your order, but if you have no objection I will take them end use them in my home at Scotton. I think the voltage up there is 11s, but am not nure. However, the lamms could be made zood use of.

When you have some other lamos of 115 volts, send them to me and I will see that they get up to Mr. Edison's house and that one is put in the fixture on his table here in the Library.

With kind regards, I remain,

Yours sincerely.

Assistant to Mr. Edison.

A/7086.

May 6,1919.

Miss Harriet W. Corley, Department of Publicity, Edison Lamp Works, Harrison N.J.

Dear Miss Corley:

and handed to ir. Mison. He has made some penuil notes in reply to the questions attached to your letter They are accordingly prief, and I shell give them to They are accordingly prief, and I shell give them to smooth the theorem of your questions. I smoothly give you the answers and will not repeat the questions.

- 1. Have not attended theatre in late years. Am very fond of the theatre, but too deaf to hear.
  - 2. Musical, melodrama, and spectacular.
  - 3. Only dimmers and stage devices.
  - No. He devised the first electrical stage apparatus and lighted the first theatres to be electrically lighted. These were in Boston and in New York.
  - 5. Not now.
  - 6. There were several, but he cannot now recall them.
  - 8. He did not see "The Unknown Purple".
  - All he can say is that Belauce is the Master of dramatic productions.

Mr. Edison made no enswers to the numbers that are omitted.

Yours very truly,

Assistant to Mr.Edison.

CHARTERED IGER CREDIT DEPARTMENT

The Tarmers Loan, and Trust Company, 16.18.208 22 William Sheet!

New York.

June 7, 1919.

Thomas A. Edison, Esq., c/o Thomas A. Edison, Inc., West Orange, N.J.

Day that there was if I remember One of our triends has about successfunced of no parquents

Dear Sir:-

One of our friends has asked us to obtain for his the status or some shares he holds in the Edison Electric Light to of groups, Light to of properties, our records show that we acted as Registrary of the stock and that the corporation, of which you were President, dissolved in 1898. May we trouble you to tell us what distribution was made to the stookholders and whether or not funds are still reserved for unpresented shares.

Assuring you that your courtesy and trouble will be much appreciated,

we are,

Very truly yours,

The Farmers' Loan and Trust Company,

June 11,1919.

The Farmers' Loan and Trust Company, 16 - 22 William Street, New York, N.Y.

Gentlemen: Atten: Mr.J.L.Morris, Credit Manager:

Your letter of June 7th, asking for the status of some shares held by one of your friends in the Edison Electric Light Company of Europe, Itd., has been received.

According to the best of my recollection, no distribution was ever made to stockholdors. The potents were not unstained, and no reguments of money were ever received by the Edison Electric Light Co. of Europe, Ltd.

Yours very truly.

35 Charles Street Thomas d. Edison East Bruge, New Juny (7439) me know how it under by me know how it under of the Edward Charlie Light Company of Europe, fimilia were distributed Fifteen shower of the above company were among the stock left by my and and as one of the execution I the whate I would apprecialeany information you could Yours truly 8. n. Whiting.

June 23,1919.

Miss E. W. Whiting, 35 Charles Street, New York, N.Y.

Dear Madam:

received. Your letter of June 19th has been The Edison Electric Light Company of Europe, Indited, had no assets except a lot of co-celled "Founders Shares" which were issued by a Company organized in Europe. These where were issued for the European patent rights, but as the materts were never fully sustained in Europe, the Shares were worthless and nothing was ever realized on them.

I never received anything for these European patents, and, therefore, am equally a loser with the other stockholders of the Edison Electric Light Company of Europe, Limited.

Yours very truly,

A/7439

# Re: Edison Swan Electric Co., Ltd.:

#### Er. Kallow:

Referring to the conversations we have had in the last weak or ten days. I quite agree with you that you should have the papers relating to dis. Milson's stock in the above Gompany, so that you may keep them in the safe. It has been rather a problem to me what to do with them no they are larger in size than papers we ordinarily file.

I am handing you herewith all the pupers in my possession relating to this matter. These include the following:

- 1. A rough memorandum I made about fanuar, 29,1919, when Hr. Edward A. Cimingham called on Mr. Edison.
- 2. Balance Shoot of Edison Sunn Slectric Co., 5td., June 30,1918.

  5. Letter from Mc. Gimingham on Hotel Biltmore paper, New York.
- dated February 1,1919.
  4. Five-page letter of Mr. Charles Fox, 66 Broadway, New York
- 8. Two-pare momorunium addressed by me to Mr. Holden, February 14,1919. 6. Attached theroto Mr. Lamihan's opinion, February 21,1919.
- 7. Hemorandum addressed by me to Mr. Raison, February 27,1919, attached to printed notice referres to therein.
- 8. Pencil memorandum addressed by me to Lir. Edison.
- 9. Pencil memorandum on deed, consisting of extracts from Mr. Edison's old lodger.
- 10. Stock list and memorandum from Thomas Hewitt, 19 Corcoration St., Manahastor.
- 11. Letter from Capt. A. F. Wagner, London, dated March 31, 1919, addressed to me. Attuched to this are transcripts of Proceedings to reduce Capital Stock of Edition Swan Micutric Comapny, 744.

contd.next page!

12. Amended Hemorundum and Articles of Association of Adison Swan Electric Congany, Idd.

13. Inself worth from the Town Edison asking if he would have him stock transpared, and this amount on the registre. You will find in the memorunda addressed by me to Hr. Holden and Hr. Edison, the full story relating to Hr. Edison's stock in the above Company.

OF BUILDINGS STORY

W

ARTHUR WILLIAMS
IRVING PLACE AND FIFTEENTH STREET
NEW YORK

August 22 1919

Thomas A Edison Esq Llewellyn Park Orange New Jersey

Dear Mr Edison

Day Twell do so guest ~ poon as I can feed true

In the fall of 1917, we celebrated the thirty-fifth anniversary of your great work in this City by placing a bronze tablet on the building now occupying the site of the old Fearl Street station. Special exercises were held at the Electrical Show, at which the tablet was dedicated, and addresses were made by Mesers Lieb, Borough President Marke, Officers of The American Scenic and Historical Preservation Society, and others. Many of your ploneers were present, but you, yourself, were too husy in the war effort to come.

It is my opinion that you have not seen the tablet and I am wondering whether it would not be possible to come over some day soon and lunch with us and visit the historic site upon which the tablet has been erected. I know there are a number of Edison men who would be very happy to be present on such an eventful occasion.

Hoping that this may be possible,

Very sincerely yours

August 29,1919.

Mr. Arthur Villiams, Irving Place and Fifteenth St., New York, N.Y.

My dear Mr. Williams:

22d to Mr. Zifson, and he withou me to say that he will, just as soon as he can find time, come over and visit the historic site of the old Pearl Street stein, and on which a bronz tablet has been placed on the building now couplying the site.

Just when this will be I do not know, but if possible, I will let you know a few days ahead so you will be prepared to join Mr. Edison.

With kind regards, I remain,

Yours sincerely,

Assistant to Er. Edison.

th Eladrichighto tolorus 4 until it is s year they .00

Jelyson Jelyson Sept 2. 1719.

Samuel Sugar

Commencetthe Edward &

Operative cours out in surroger, as exting me - the surys systeming to administration that the surys systeming to administration that the third through at most relay by the format excellent to correct operation to correct operation to correct operation through which is correct operation to make the week solute it saw out of meney out that we southined to give cretic much it was putter through that your secontaction. This amount quietty.

POSTAL TELEGRAPH - COMMERCIAL CABLES TIME FILED

Sprague

nd conditions printed on the back of this bla

Chicago, Sept. 2,1919.

Thos. A. Edison. Orange, N.J.

Have no distinct recollection as to when extension of credit to Sprague Co. by Edison Machine Works started but feel pretty sure it was during Richmond installa-tion. Edison Machine Works continued to give them credit fer long time taking their notes and this could not have weeks. I think Ernest Berggren and Gilmere could dig out mecessary in formation on subject. Very gled indeed, to de anything I can in connectien with matter fer you. Have no recellection of Sprague's personal oredit being used in any way as a guarantee to Edisen Machine Works, and but for the credit extended by Machine Werks, Sprague Company would have getten inte very serious trouble. SAMUEL INSULL

Sept. 2.1919

General Electric Co., Schenectady, N.Y.

Gentlemen: Atten: Engineering Department:

Sontiemen: Arton: Learneering Department:

Mr. Edisen wishes to have some information regarding small water powers and stations without attendants, etc. Can you furnish such information?

Yours very truly.

Assistant to Hr. Edison.

frague.

Sept. 4,1919.

Mr. Samuel Insull, Commonwealth Edison Co., 72 West Adams Street, Chicago, Ill.

My don'r Hr. Insull:

Mr. Edison received your telegram about the Sprugue matter and wants me to thank you for your prompt attention and also for your offer of further assistance, if mecessary.

Your telegram confirmed his own recollection.

If you have not already seen Mr. Sprague's letter which was published in the New York San, you will be interested in reading it, and I am enclosing a copy herewith, also a copy of Mr. Edison's reply.

I am suce Mr. Edison would be glad to learn what you think of the whole thing. With kind regards. I remain.

Sincerely yours,

Assistant to Mr. Edison.

Enclosures.

#### October 17, 1919.

Mr. J. C. Bennett, General Electric Co., No. 120 Broadway, New York City.

My dear Mr. Bennett:

Allow me to thank you for your letter of October 14, conveying much desired information concerning automatic stations. I have shown it to Mr. Edison who was very much interested, and he asks me to thank you in his behalf.

Our paths in life seemed to have diverged, and although we are so near, yet we are so far, for I never see you now-a-days.

I trust all is well with you, and with -kindest regards, remain,

Yours sincerely,

Asst. to Mr.Edison.

Porm 1204

UR. MAIN ST. & LOOLATEL RECEIVED AT ORANGE, N. J.

NYC 90 TELEPHONE ORANGE 4361 MQ CHICAGO ILLS 936A OCT 21 1919 58 NYC 90

THOMAS A EDISON

I NOTICE YESTERDAYS PAPER SPEAKS OF OCTOBES TWENTY FIRST AS FORTIETH ANNIVERSARY INVENTION OF INCAMDESHIM DO NOT KNOW WHETHER THIS IS CORRECT DATE HOWEVER AS PEOPLE ARE CELEBRATING TODAY ALLOW ME CONGRATULATE YOU OF THIS OCCASION SOMETHES IT THINK YOU CONFERED GREATER SERVETTS ON ONE RACE BY DEVELOPMENT OF YOUR DISTRIBUTION SYSTEM THAN YOU LATTER AS A RECESSARY PART YOUR THOMAS THE BOOK OF THE REGARDS

. SAMUEL INSULL

/ 140A

W

#### ARTHUR WILLIAMS IRVING PLACE AND FIFTEENTH STREET NEW YORK

October 21 1919

Thomas A Edison Esq Llewellyn Park Orange New Jersey

Dear Mr Edison

Enclosed is a copy of a letter which came to me a few days ago from Mr J F Atkins, expressing his regret that he could not be present at 257 Pearl Street on Saturday, October eleventh. Mr Atkins' letter is so interesting that I believe you will enjoy reading it.

With kindest personal regards,

Sincerely

Antiva Williams

(Enclosure)

8103

Scituate Mass October 16 1919

Mr Arthur Williams General Inspector N Y Edison Company

Dear Sir

I wish to thank you for your very kind invitation to the reception jayem to iir Thojas A. Edison, on Scturday Ostober 11 1918; and also to express my sincer regret that it was impossible for me, to mynim meet and mee iir Edison, yourself, and all the other olditiers, on that happy occasion. Well do I remember Mr Edison, as he appeared on September 28 1881; slightly leaning meethet a wooden aming post, on Peck Slip mear Front Sti, he stood, alone, appearently in deep thought. His figure was ideal, straight, well rounded, perhaps 180 to 180 lbs., he appeared the picture of good health. At the corner of Peck Slip and South Street, the first Edison junction—box and tube, of the tro-wire system, was lying in the trench, and mearby stood ir Insull, Mr. Johnson, Mr. Clarke, and others, perhaps Mr. Estchelder, Mr. Kruesi, Mr. Eston, if, Goddard and others.

Distinctly do I remember the first time that I am you - "Always on the job, big hearted". Harry Smith, took me with him, on his final round before going home for the night. After testing the feeders on the old board, on the 2nd floor of 255, we went to the 5rd floor of 257, and there, stiting at a deek, with his back towards us, was a young man.

Before him, on the iesk, was an ampere meter, and a volt meter, and a book on electricity; above his heal, within his reach, was a wheel perhaps & feet in diameter. A single invaniescent lamp furnished illumination, for very close economy was the watchword in those days, and it probably was an analytimp, but might have been a "B". Ur. Baith and his young ann entered into conversation relating to volts, amperes, loads, etc. All the time, the young man seemed to be reading his book, turning a leaf, etc. but now and sepain he would seem to glance at a meter, and would then reach up over his head and move the wheel that connected with a shaft - on which were other wheels connecting with wheels on boxes. Your face I could not see, nor was there visible any slives with the gold.

Poor Harry Saith, his passing caused us all to feel a vacancy among our friends. Home knew him but to love him. And Mr Lieb!. After roughing it, for weeks and months at the old Pearl Street Skation, day and night, eating and eleeping, always there, Mr. Edison's right hand wan in that relentless struggle of tuning up the First Central Station in the World. Mr. Lieb began to prepare for Milan.

Coming to the draughting room at 65 early one morning, in a search for plans to take with him, his huseling, bustling method, made one know, that he knew just what he wanted, and just where to find it. Being saked by an engineer, I have forgotten his name, "Would it not be better to use at Milan, something different than what was used at the Pearl St. Station?"

Mr. Lieb replied, "It may be so". Since then I have always thought of Mr. Lieb as always open to conviction and always wanting the best.

With Mr. Edison, I worked directly under his eye during the year of the Edison Construction Company, May 1883 to June 1884, and never did Hr Edison give me one reproving word or look. One day he came to my table and carefully wrote the 10 figures, from 0 to 9, and then he weaked away. without a word. I have ever since time tried to profit by his lesson. How age and loss of memory is against me. One day Johnnie Randolph came to me and said, "Mr Edison says 'Give this to Joe". In clearing out a drawer, ir Edison came across a large size photo of himself. This was the present John brought to me. Poor Johnnie Randolph - he was my dear friend. His death was a tragedy. While my icar wife live, this Photo in a charry frame, hung in our home with Franklin, Jefferson, Lafayette, Jackson, Hozart and Victor Hugo, but since that fatal day in May 1915, my little belongings have scattered and but few remain with me in one small room, yet I still cling to Lafayette, Edison and Jackson. I often wonder, who will value them as I do. The Edison Photo shows him at about 3 5. Perhaps it may be best th-t I bring that to you, for then it would be preserved.

I have been here since July 6th. This place while not ideal is good for me, my health improves, when I came here I was weak, now I feel quite strong. Assisting in the work outs down the rate, and wearing clothes of ancient days also

reduces expense. I still hold on to my summer costume, and am spoken of by the villagers as "The old man with the stream hat". Still they are all my friends and all speaks a friendly word to me as I walk the new almost deserted streat. Within a few days I expect to return to myold address, 1081 St. Micholas Avenue, New York City, Care of F. J. White.

Respectfully yours

(signed) J. F. Atkins

211 Elison: This is for Alkins; one of our old boys a tall lanky, acoust fand chaps with seel cheeks . He wise misselfourance work, was for some time was with Coursein

Mentourings

al Print St Steeleni.

Mr. Edison ,

Hase friends Has

for of writing .

More & water gother

Together the filedes te

Montemon

October 23,1919.

Mr. Samuel Insull, Commonwealth Edison Co., Edison Building, Chicago, Ill.

Dear Insull:

I greatly approxiate your telegram of congratulations. I have a very vivid recollection of October 21st, forty years ago, and it is mighty interesting to look back over the intervening period. We have all of us had lots of stirring experiences in the meantime.

I hope you are well and enjoying a continuance of your prosperous career.

Yours very truly.

October 29, 1919.

Mr. Arthur Williams, Irving Pl. & 15th St., New York City.

Dear Mr. Williams:-

I was much interested in reading the copy of a letter from Joe Atkins, which come to me together with a letter from you. To tell the truth I had forgotten Atkins until Meadoworoft explained who he was. Then, I remembered him.

With thanks for your kindness in forwarding me copy of this letter, I remain,

yours very truly,

Ediphone

Sprague

November 8, 1919

Mr. H. F. Parshall, Salisbury House, London Wall, London, W.C., England.

Dear Mr. Parshall:

dipping that our friend Sprague has entered upon a site to get quite a broad recognition. His letter of August 26 was to Ur. Edison like a thunderbolt out of a clear sky.

two olippings, and would like to have your recollection of the facts in regard to Sprague's early work. You know all about 14. You will see that I've like on't regard to sprague's early work. You know all about 14. You will see that Ur. Editon's reply is quit to temperate. I have outse an impression that you yourself had a lot to do in pulling Sprague out of a hole.

Sprague is rampaging around quite a little on this subject. He had a whole page pullshed in his home town newspaper, and I understand that he has written quite a number of letters to some of the old-timers.

Mr. Edison is not going to enter into any newspaper controversy, but he would like to have the facts from

Mr. Edison trusts that you are well, and sends his kind regards, in which I join also.

Yours very truly,

25.

Asst. to Mr. Edison.

Sprague

H.F. Parshall Q.b. Mobil Co. Salisbury House. Censulting Engineer Lenden We

C.9781/8

sbury House. London Wall. London; E.O.2.

November 26th 1919.

Thomas A. Edison, Esq., Orange, New Jersey.

TELEGRAMS: "PARSHALITE AVE LONGE

THE PROPERTY LONDON WALL SOI

Dear Mr. Edison.

4 thought it was parchele who designed the practical realis

I have Mr. Meadowcroft's letter of the 8th inst. regarding Sprague. On looking through his letter it occurs to no that Sprague is thinking of his multiple control system. Of ourse he was the pioneer of this system but was not the absolute originator as the Mashington receres would show. It was, however, I think due to Sprague's great foresight and much that the multiple control got its first prominence. Subsequently Potter and other engineers came along and made improvements which were the forenumer of the system as used to-day, although of ourse the multiple control, like ever thing slse in the traction field, has been subject to so many developments and improvements that the original system would be counted more or less uncommercial, according to present day standards. This last remark of course explicated with the development of electric motors

H.F. Parshall

Thomas A. Edison, Esq.

BHEET NE ZA

Nov. 26th 1919.

should attach the greatest importance to their own work. I went into the Sprague Company in 1887 and Sprague at that time had developed a single reduction motor, which, according to the then standard, was about the best on the market. It had the fault, however, that it had been developed on the dynamo principle, consequently the torque per ampere was very low and the machine would not start a car without burning off the brushes and eventually burning out the armature. The high torque motor was a subsequent development, and was largely developed under my direction in the Edison Machine Works at Schenectady. You will probably remember there was an Edison 10 and an Edison 12 motor gramme wound with smooth core. These proved to be a failure owing to the low torque per ampere. Later on I was asked to go to the Schenectady works and I there developed the projection type of armsture, which gave something like 60% more torque per ampere and which was the forerummer of all modern electric machines. So far as I am aware I was the first engineer in America to develop projection armstures I had already built steel frame motors of this type. with projection armatures and drum wound and the Wenstrom Company at Baltimore had found that it was possible to . build a single reduction machine of moderate weight that would

Thomas A. Edison, Esq.

Hov. 26th 19191

start a car without excessive current.

I should not like to underrate the value of Sprague's work, since undoubtedly his great energy and push were responsible for the Richmond installation. Of course everything on the Richmond installation was practically a failure commercially but it lead to the development of the Sprague No. 8 motor which I designed and which was a double reduction motor as against the single reduction motor, the double reduction being to get additional torque per ampere mechanically instead of electrically. Sprague of course developed the multiple field control as also he was the pioneer of the series parallel control. In the matter of idea there is not much doubt that Sprague was the true pioneer, although, as you say, practically all the elements that he turned into service for the purpose of his traction installation were known at the time. There is, however, the fact that Van Depoele and others had tried to get out a traction plant and none of them had succeeded in producing motive power in the way Sprague did. There is little to compare between the original motor of Sprague and the present motor of to-day. dynamo idea was exploded very early, since the dynamo had a very low torque per ampere and there was practically no speed limit, whereas the traction motor must of nocessity have a very high torque per ampere which meant a low speed limit. This feature

H.T. Parshall.

Thomas A. Edison, Esq.

Nov. 26th 1919.

of the traction motor was not reco-mised in the early days and I think was not clearly recognised until I perfected the designs above mentioned. In connection with the multiple control system, I never saw any particular reason why the General Electric Company called it the Sprague system, since Potter and Freece and a multitude of other engineers are responsible for the machinery as it was manufactured and used.

The whole process has been one of development, there being very little invention in the electric traction field, so I do not see that any particular engineer has the right to claim a monopoly of any particular traction system. I am sorry Sprague's feelings have been hurt and I should be equally sorry if he said anything that would depreciate the value of your work in connection with lighting. My modesty has always prevented me from particularly asserting the influence I had in developing the motor in its more modern form. One of my characteristics has been never to desire my name to appear very prominently before the public either as inventor or encineer. I do not know that I have suffered, at least I am quite happy: I am only sorry for those who think they have any claim to prominence and have not secured the appreciation their work entitles them to.

P.S. As requested I return the cuttings Marshall

#### Edison General File Series 1919. Employment (E-19-29)

This folder contains correspondence and other documents relating to employees in Edison's laboratory and factories, as well as prospective employees and individuals who had been worked for Edison in the past. There are occasional references to demobilization and the problems of postwar unemployment. Many of the items for 1919 pertain to Edison's search for practical chemists and mechanical engineers. Included is correspondence with the Bureau of Employment of the Chemists Club and with trade journals such as Chemical & Metallurgical Engineering regarding advertisements for chemists. In addition, there are draft copies of technical questionnaires prepared by Edison for prospective chemists and mechanical engineers along with completed or partially completed questionnaires submitted by the candidates. Representative samples by William J. Gross (49-question chemist's exam) and George W. Speirs (78-question engineer's exam)have been selected; both contain comments by Edison. There are remarks on some of the documents indicating the candidates' frustration with Edison's method of hiring. Several applicants refused to answer the questions, one calling them a "waste of time" for a man with his practical experience and another stating that he "would not attempt to answer them without looking them up at home with his books."

The correspondents who were offered jobs in 1919 include mechanical merit of the control of the

Other correspondents include Col. Thurman H. Bane of Bureau of Aircraft Production; pianists Seymour Furth and Herbert A. Malino; U.S. Shipping Board president Edward N. Hurley; Prof. L. E. Jenks of the University of Buffalo; glassblower Andrew H. Kuhn; John H. Phipps of the Newark Lodge of International Association of Machinists; and Cmdr. Frederick A. Traut of the U.S. Navv.

Approximately 20 percent of the documents have been selected. The unselected items include numerous responses to Edison's advertisements (some enclosing additional documents such as letters of reference), which were ranked by Edison from one to five. The higher-ranked applicants were invited for interviews, while the others received replies stating that the position had been filled or that their experience was not of the type required. Also unselected are nineteen copies of Edison's chemist's questionnaire and sixteen copies of his mechanical engineer's exam, which were at least partially completed by the candidates and which bear numerous marginal comments by Edison, such as "wrong," "por ans," and "Holy Gee."

Other categories of unselected documents include Edison's requests to projective chemists for a photograph and a statement of their desired salary; responses to his advertisement for an improvisational plano player; company business records not pertaining to Edison personally, reference letters and requests; and items duplicating the information in the selected documents, including copies of letters sent to applicants based on Edison's marginalia. In addition, there are unsolicited requests for various kinds of jobs, which received routine replies stating that the Edison companies did not employ workers in that industry, that they had too many staff returning from the war, or that the available work was merely routine factory employment and not worth the trouble of relocating.

January 4, 1919.

Mr. Charles Edison:

Regarding attached from Newark Lodge, No. 240, International Association of Machinista received this morning. Ir. Phipps telephoned that they would like a donation from the Edison Industries. Do you wish to give thom any

Association. If our find no record of Us. Edicou's having contributed to this Association. Its Huntington of The Edicon Shop says that Phrocographs Limited did not do only advertising last year, therefore, the sample of advertisement stuched was probably for a previous year paid for by Phrocograph Salos Cumpany. Do not imagine it would be of much value to him and it peems to me that if mything was to be given it would be more advantageous to the given from here.

R. W. Kelley,

These are the fellows who caused us all the Fronte arent they? If so I count see paywer

#### [ATTACHMENT/ENCLOSURE]

NEWARK LODGE, No. 340



# nternational Association of Machinists



TO OUR FRIENDS:

Dear Sir:-Our Annual Ball and Reception will be held at Krueger Auditorium, January 4th, 1919, and will be attended by hundreds of members and their friends from all this section of New Jersey, as well as from New York.

We count on your co-operation to help defray necessary expenses and make this affair the grand success we are striving for this year.

We will issue and distribute our official Souvenir Books, which will contain the program of the evening, also photos of our officers, the order of dancing, committees, history of the organization, etc., which will be procured by prominent members and friends from Newark, The Oranges, Jersey City, Harrison, Hoboken, Plainfield, Somerville, Garwood, Bound Brook, Cranford, Elizabeth, Trenton, Bayonne, and other nearby cities who attend our Annual Ball and Reception.

We have reserved spaces for our friends in this program, which will be kept for years, and we hope you will avail yourself of this opportunity, and ask you to sign enclosed order blank and mail to our Treasurer in enclosed envelope with copy of advertisement you wish inserted.

Very truly yours, JOHN H. PHIPPS, Treasurer.

JOSEPH O'CONNOR, Secretary.

We will appreciate your kind favor by return mail, as we will be unable to call upon you to solicit your advertisement, we ask you to kindly mail it? to us. It will always be remembered and appreciated.

In Illian The card I called you up in regard & me han clean secured the fair for That Edina & Margaret

Kellow - OK to contribute \$ 1500 thru Edison Shop Nevera The feccus who ca The Edwar Juden Who trough we had. should not fray a cent. Ix suight however be good business for the Educar Shop to contribut 1,500 I for any twist benefit that they might I derive from the advertising, do you know they war a large following and row Mongh eto membership is irresponsible and its leadership she very worst imaginally, shey murtheres represent Those buyer or profee physcharers, to a certain extent, and we should not in my opinion, overlook this bex

Second recommend shot we continued through the Edward Shot 1523. It cans - On us any tream and may financy de clark

January 28, 1919

TO WHOM IT MAY CONCERN:

This is to certify that Mr. Y. Nakamigawa has spent nearly three months in my Chemical Laboratory here at Orange, experimenting under my direction, and his work has been quite satisfactory.

A. S. Nabal Station, Rey West, Fla.

IN REPLY REFER TO

take my chance.

Day hat at prevent on Elecant of

Boar Nr. Edison, - Learn War of haber no a famma
I have, doceration to rative from action

I have described to refrequence control express views in the lary as soon as possible, but I togethe to be mitted find a come suitable conformation at 1911 live, as y retired pay yould so a not be sufficient for a to late the transfer of the control and the control of the con

in therefore years to inquire is there is any capacity as an all loves and the control of the co

I well regumber what tellingung, when you more here to Mary Jacob according into any community with a man, but that unless he made good within a reasonable time he had to leave your employment. I understand this and one ready to

Very sincerely yours,

Ja rant

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VILIT PRINT 144

HS Martin/OF

## WAR DEPARTMENT BUREAU OF AIRCRAFT PRODUCTION AIRPLANE ENGINEERING DIVISION

MCCOOK FIELD

in sem

DRESS REPLY IN DUPLICATE TO

DAYTON, OHIO, Jan. 30, 1919.

From:

Technical Division, Air Service.

To:

Mr. Thomas Edison, East Orange, New Jersey.

Subject:

Employment as Consulting Engineer.

- The rechnical Division of the Air Service is desirrous of obtaining the services of recognited experience connecting engineers of the services of recognitions of the services of the services
- We are very anxious to retain a representative group
  of engineers, but are unable to pay them the high rates they are
  able to demand, and are unquestionably worth, due to the fact that
  our funds ab present are very limited.
- We are very desirous of retaining you as a consulting engineer on the subject of electricity, and request that you state under what conditions you would be able to serve.
- 4. It is not anticipated that we would call upon you chan, but we appreciate the advantage of your engineering experience, in case it becomes necessary. We or course would rave you sufficient notice so that you could commendately come to McDook Field, or in some cases your opinion on matters could be requested by letter.
- 5. We are able to pay actual travelling exposess. including transportation Pollman fare, hotel and other living exposes scally incurred by you during the time you are engaged to the producting work, or the regular por dise milconnec of four dollars a day and transportation, plus a fixed sum for each communication.
- 6. We regret we are not able to remunerate you at a rate compatible with the value of your services, but believe you will appreciate this, and endeavor, if possible, to give us the benefit of your knowledge and experience. If you feel that you are in

a position to cooperate with us in this matter, it is requested that you advise us, so that a contract may be forwarded for accomplishment.

THURMAN H. BANE, Colonel, A. S. A. Chief, Technical Division.

February 6, 1919.

Colonel Thurman H. Bane, Chief, Technical Division, War Department, Burnau of Aircraft Production, UCCook Yield, Dayton, Ohio,

Deer Sir :-

I have received your letter of January 30th on the subject of using my services as Consulting Engineer.

Let me say that the Technical Division of the Air Service may consider itself free at all time to send a representative or representatives to me at the laboratory, and I will give full information on any subject unon which I have ever experimented, overmeanly charge, if it is for the benefit of our Government.

I expect to leave Monday for a few weeks visit to Florida, but if there are any inquiries you desire to make that can be conveyed by letter, such letters may be addressed to me at the Laboratory and my Assistant will forward them to me.

Yours very truly.

A/6490.

Kuicini on pay sell is slice side at home. very bad caugh and sentines spils blood. new york Edwar 60 - seul their declor up to see hois the though Kuitin had a spot on one long, but an moniower (1

## Postal Telegraph-Cable Company

Executive Offices

253 BROADWAY

CHARLES P. BRUCH

New Pork February Twenty-Scurth,

ir. Billoon Day we all full sence

in. P. N. Morton, the son of an old friend of mine, dosires if possible to obtain a position in your laboratory.

A laboratory to be a laboratory of the course of the course of the course in the stevens and toke one and a half years of the course in the

Institutes Peterett State of Content 200 and Jean or more ago the Sperry Gyroscope Company called on Stevens Institute for five men, and young Norton responded as come of them and worked in their search light test young for the

on Stowens Institute for five men, and young Norton responded as one of them and worked in their search light test room for the better part of a year, and then enlisted in the mays. The Sperry Gyroscope people recommend him very highly, and I can wouch for his character.

a month ago, he was honorably discharged from the Havy about a month ago, he was, and still is, employed in the Engline and Fung Assembling lopeartment of the Staten Landa Siphonilaling Goomady, but he does not wish to do this kind of work permanently. He prefers, if possible, to contime research work.

· Can you make use of him ?

With kind personal regards.

Sinceroly yours,

Chas I April

Hr. Thos. A. Edison, Orange, New Jorsey.

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6703

INGERSOLL-RAND CO.

II BROADWAY

EXECUTIVE OFFICE

William H.Meadoworoft, Esq., Secretary to Mr. Thomas A.Edison. Orange, N.J.

Dear Mr. Meadoworoft: -

. . . . . .

Day to Dander and that I seem need him

D extract the following from a letter received from our representative in France, who has our entire confidence:

> "My brother is a chemist, graduated from the Frenquational Institut de Physique et de Chimie" where he was number one. He is specialist in the question of dyeing products which he has most carefully studied, his full know-ledge of the Corman language giving him facilities of following the German progresses.

"For the last twenty-five years, he has been attached to one of the most important French companies of dyeing products. He first started as an ordinary chemist and finally became Manager of the Works. He is a man of 44 and is at the head of interesting financial means.

"My brother is not satisfied with his present situation. The dyeing products industry in France is much inferior to the American, British and German similar industries. His firm is an old-fashioned one who has not even taken advantage of the War possibilities to improve the situation.

"I therefore thought that it might be an interesting proposition for my brother if he could, for instance, act as an agent in France, for one of the large American Chemical Companies, such as: Du Pont de Nemours, or similar ones, and Ithought that possibly you would think of talking over this matter with some friend of yours in the chemical industry.

"Of course, as you understand, my brother is not locking for a job; he simply judges that he is wasting his time and his energies with an old-fashioned concern. The respect he has for the people he has been connected with for so many years makes that he is not desirous of starting any business for himself in their line, or joining any competitor concern, but acting in the interests of a large American Company would please him very well."

Does this interest Mr. Edison? If so, I shall be glad to communicate his wishes to my correspondent.

Cordially yours,

March 7,1919.

Mr.Thomas A.Edison, West Orange, N.J.

Door Sir:-

I believe that my department would be materially benefited if it were possible for me to meet other Architects engaged in work similar to mine and have an opportunity of profiting from their experience and ideas.

And to accomplish this ond, I have made application to the New Jersey State Board for an Architect's Ornflicate. In mply they advised that the oustcarry to mak camelantics, involving several days, would be waived upon a letter of racommendation from you prevently.

So, if you would be kind enough to emiorse me to the extent of the excompanying letter, I would greatly appreciate it.

Incidently, I will be ar expense in this connection.

Respectfully yours,
Al Arthur Wolf

#### [ATTACHMENT/ENCLOSURE]

New Jersey State Board of Architects,

· Newark, n.J.

Gentlemen

In connection with Mr. M. Arthur Wolf's application for an Architect's Cortificate, I would advise that he is Construction Engineer in charge of the Construction Engineering Division of the Thos. A. Edison Interests.

During the past nine years he has designed and supervised the rection of buildings for a number of power and chemical plants, factory buildings, sto.

It is my belief that he is competent and merits the recognition of your board.

Mr. Thos. A. Edison,
The Edison Laboratory,
Orange, New Jersey.

I hereby make application for position as research chemist with your laboratory. In making this application, I have the chief object in view of learning and gaining experience by associating myself with one of the foremost scientists of this country.

I was graduated in Chemical Engineering from the University of Illinois and have had two years' practical experience in the laboratory as chemist with the Eatna Explosives Co., Inc., at their Silverford Plant, Ht. Union, Pa.; with the French High Commission at their Inspection Laboratory, 22 E. 17th. St., New York City; and with the Hercules Fowder Co. at their government plant, Mitro, West Virginia.

Should you care to consider this application, I will furnish you references when required.

Chinamon (

Very truly yours,

Sau Cyce

## [ATTACHMENT/ENCLOSURE (PHOTOCOPY)]



March 10 1919.

Faculty of Sibley College, Cornell University, Ithaca, N.Y.

Gentlemen:

Mr. Charles Horris, Jr., has been employed in our Storeso Battery Division since the Spring of 1917, handling Government work with marticular credit both at Orance, H.J. and Ammapolis MA. In fact he was one of the men for whom we asked exemution from the draft because of his boing essential to the effective carrying out of the Government work that we have been doing.

Mr. Porris did not resume his studies on December 30,1918, because at that time we were particularly anxious to have him remain at his post in our Test Department in order to complete some Government work.

In view of the fact that Mr. Morris' failure to return on December 30th was due to his conscientious performance of duty in connection with important Government work, we trust that you will great him every consideration in resuming his studies.

Yours very truly,

March 17,1919

Mr. Gan C. Yee, 233 West 107th Street, New York, N.Y.

Dear Sir:-

Your letter of March 8th, addressed to Mr. Edison, was received and forwarded to him in Florida, where he is spending a few weeks.

I have just received the letter back from him bearing a notation that he will see you when he returns if you have not already taken a postion semewhere. I expect him back by the middle of April, and would suggest that you write to me about that time and then I can make an appointment for you

Yours very truly,

Assistant to Mr. Edison.

A/6763.

Down board we do sured or the KINGSPORT, TENNESSEE Mr. Thomas A. Edison. West Orange, N.J. Dear Sir: Mr. George S. Andrews has given your hame as a technical reference in connection with his experience as a We understand that he was employed by you and we shall be glad to have your candid statement as to your opinion of his ability as a chemist. Yours very truly, UNION DYE & CHEMICAL CORPORATION JFW/P General Manager 

A QUAKER VIEW OF LABOR RELATIONS I

Which Gots Down to the Fundamental Rights of Employer and Employee

3/23/9 This seems absolut

The Conclusions reached are grouped under five heads:

- WAGES - and could be used

"We believe that the following propositions may be laid down with regard to!
wages:

- l. In determining the mote of ungoe to be paid, a distinction must be drawn of between the influence of the service removera, as compared with the value of the service removera, as compared with the value of the service removera, as compared with the value of the service removera, as compared with the value of the service removera, as compared with the value of the service removerant, as compared with the value of the service removes the latter by the value of the service removes the latter by the value of the service removes the contract of the value of the service removes the value of the
  - 2. The Basic Wages.

but this is an

- (a) Non. The ways gold to a sun of average industry and especially should at Absorbed. I sast analysis that o easys to live in a decembrance, and to provide the measurants of of physical efficiency for a normal family, while allowing a reasonable margin for Science contingencies and reportation.
- (b) Women. In the case of women engaged upon work which has hitherto been regarded as man's work, the payment should be equal for the same volume and quality of work, assuming equal adaptability to other meassary work.
- In the case of purely women's work, the heads wage for a woman of average industry and capacity should be the sum mecessary to maintain her in a decent dwelling and in a state of full physical efficiency, and to allow a reasonable margin for contingencies and reorastion.
  - 3. The Secondary Wage.

The Secondary wage is remuneration for any special gift, or qualification are season for the performance of a particular function, e.g., special skill as a tradesman; the special strongth of some physical organ, as in the case of a gas stoker; special muscular training and power, such as that of a lumbercam; responsibility for human life, as in the case of locontive engine activers.

We believe that if once the basic wage is fixed at a right level, the precise upon of the secondary wage to be paid for different services may be left as at present, to barghning. But no conducting such bargaining the applyer abound resember that the pleasures and varieties of life are just as dear to the workers as to himself, and that then, to, need comfort, rest and change of seems.

It is recognized that the payment of wages on the above basis will require a larger increase in the wage rates in many inhustaties than issue of them could at present of many inhustaties than issue of them could at present of such wages should be regarded any of the second property but notes inhultity. It in that is discharged they should vary strictly limit that or memmeration for that; services, nor should they may retrictly limit that or memmeration for that; services, nor should they may larger dividend upon borrowed capital that is essential to ensure an adequate supply. But if at the moment really adequate wages cannot be paid, the earnest attention of the management should be turned to improving the processes and general efficiency of

their business organization, by the use of engineering and chemical science, adequate costing systems, etc.

#### - STATUS -

The worker asks to-day for more than an impovement in his secounds position. He claims from employers and managers the clear recognition of his rights as a person. The justice of this claim our religionable use to saint. We cannot regard human beings as it they were marrly present that the property of the condition involves the currenter by capital of its supposed with the distance to labor the conditions under which work shall be carried on. It requires once, the frunk avoned that all next set from the conditions when the workers should be decided in consultation with them, when once they are recognized as members of an all-embracing human brotherhood.

What machinery can be devised which will enable industry to adopt these principles, without ondexpering its productivity, on which the wages of both labor and capital utilizately depend?

The management of a business may be divided broadly under three heads:

(a) Financial. The provision of capital and appropriation of profit; relations with shareholders, bankers, competing businesses, the state terms of credit, etc.

(b) Commercial. Determination of the general character of the goods to be manufactured or of the class of work to be undertaken; purchase of materials; sale of product; advertising.

(c) Industrial. Control of processes and machinery; nature of product; engagement and disadesal of employees; hours of work, rates of pay, bonuses, etc.; welfare work; shop discipling; relations with trade unions.

With the financial and commercial aspects of the business the worker is not at present so directly concerned, althe indirectly they affect him witally. But in the industrial policy of the business he is directly and continuously interested, and he is causelle of helping to determine it. How can we give him an opportunity of doing this?

Questions of wago rates, discipline and shop rules, the engagement and disminal of workors, the time and duration of factory holidays, adjustments of working hours and number of staff to mest shortsee of work, health, canteen, and then social work might be referred to these councils for their opinion or decision. It is fully realized that experience on works council may and should train the members for greater participation in the control of the business, and enable them ultimately to take part in the commortal and financial administration.

#### - SECURITY OF EMPLOYMENT -

It is universally acknowledged that insecurity of employment, which is downed in the most aggressized form among casual workers, such as dockers, has a deteriorating effect on both hydraque and character. We oblives, norvers, that restricted output, and opposition to the introduction of mechinery, are almost always the result of the employee's fast that he or in follow-enjour may be threen out of employment.

We believe that it is the duty of employers to do their utmost to abolish casual labor and to render employment as regular as possible.

If, whorever labor-saving machinery, or labor-saving improvement in production methods is introduced, displaced employees were assured equally good employment elements, the Statement believes there would be oc-operation instead of colleges toward

their introduction. As a disciplinary measure "the dismissal of employees should take place only as a last resort," Finally "dead-end" compations for adolescents should provide for training for alternative permanent comparison.

#### - WORKING CONDITIONS -

The working conditions of a factory should enable and encourage every worker to be and to do his best. These conditions may be considered under two heads.

#### Personal Environment

From the moment that a worker enters a factory he should be reparted as an integral part of a living organism, not a more divident-producing machine, and treated with: respect and courtery. There should be no mapping or builtying y those in authority, but, on the contrary, insight and leaderwhip. The hardest contral choice of over-lockers and managers, who chould be able both the lead and impire.

Happiness in work should be regarded as a definite aim and asset, and the personal well-being of every worker should be an essential part of the employer's objective.

#### Material Environment

Employers should surround that, employers with a material soutronment at work such as they would desire for themsalves or for short children. This will seen that work-rooms are proportion due request to the state of the state

Again, in organizing the work, employers should remember that confinement to one monotonous task, not only month after month but year after year, is apt to deaden the intellect and degrees the vitality of the worker.

#### Social Conditions

It seems to us that the employer's responsibility, <u>As semborer</u>, ands with the payment of reges which will allow his whore to live in confortable homes, and with the setablishment of a swelfarm with the setablishment of a swelfarm with the control of the state of the stand set of the stand of the standard of the standard

## - APPROPRIATION OF "SURPLUS PROFITS" -

What shall be done with "surplus profits" if the business is so aucoescillcand, it might be added, so unusual)——se to have surplus profite? For, as this corefully reasoned Statement between the study states there can be no surplus until, not only has labor been been been considered to above, but also until the nonegors and have been remmerated according to the market value of that managers and the second of the recodered the vete of interest mosessary one until degnate supply, having regard to the risk involved, and until mescessary reserves have been made for the security and development of the butshare. Grunted that all those costs are anesoptible of fair determination—mand, within reasonably marrow limits, however the control of the state of the st

Granting two premises: first, that, the meigher progretors now workers are entitled to all the surplus profits of a bundame, not they are reasonably outsided to some charge (as an incentive to some charge (as an incentive profits) of the premises of fishingsy); and 2, that the consumer should be a profit of the profit of the charged to him should all the profits of the profit of the profit of the profit of the grant of the profit of the grant of the profit of the grant of the profit of the profit of the grant of the profit of the profit of the profit of the grant of the profit of the

"In regard to many of the matters referred to," says the "Statement" in conclusion, "there is ample room for experiment. Plomeors and explorers, and 'the makers of roads," are needed just as urgently in the industrial sphere as in the opening up of most tracts of fertile country."

Some employer may tell us that we are asking him to draw too many prestical inher-framenes from a religious formula. But the conviction we have outlind is more than a formula. It is a vantage ground, from which we can survey the shole final coscelar and industrial life, seeing in it, not sheer, blind turnedly have seeing and a vast hope. Otherwise the world of industry may revert to a coulless chaos in which we strive for our own das. But those ends, even as we achieve them, will seem monafigless and varie.

(If there exist at present a gap between employer and seployed the above Statement would seem to go a long way toward bridging it. It would be interesting to match with a similar point by point Statement, in the same spirt, from the employee's side.) Mr. Tomas A. Edison. Llewellyn Park. Orange New Jersey.

My Dear Mr. Edison:-

Jacq I will give hum a chance on haboratory now we hast year + E

Have at last received Your address through the Bureau or Information and am writing you which I have long wanted to do and hope you will take a Little interest in it. For the past year I have been urged by the people of my own home town to get in touch with you and see if you would take enough interest in me to consider what I am fixing to tell you. Every since I was largeenough to pick up a hammer I have made models of almost every thing I would see pertaining to mechanical work. I made models of aeroplanes when I was only six years of age and most every other kind of machinery I could get a chance to examine. I have experimented with numbers and numbers of things that you have invented and now that I have grown up to the age of sixteen my whole attentions have been turned toward Invention and mostly toward Improvements of things that have alreamy been invented, and you know that a boy has very little showing how unless he has money enough to put himself through school and he arm the things that have already been invented and discovered by men of the past. I can get recomendations from all the buisness men of Troy and I already have an Excellent discharge from the Charleston Havy Yard. I have an opportunity to go to school another year and I,m sure going to take it, and the information I am writing for is in regard to my getting into your labratory as soon as I get some more schooling. I spend all my time experimenting on different things pertaining to Science, having constructed a wireless station, winding all my coils and making all or my instruments my-self excepting the head receivers which I bought and have received many messages. I have no place to go into details with my experimenting as there is nothing in my own home town but a small power plant. I will be willing to start in at any thing and work as late as I,m wanted to if you would only give me a chance to enter your Labratogies in order to learn what I can about Science and work my way up. If you want to see the recom-endations I will senu them to you and get any information as to my Character, for you for I have no bad habits which I am proud of. I do not want to worry you but if you will assure me of a place in Your Labratories, no matter what doing, I will study day and night and prepare my -self the best I can. I am anclosing My Photo and also a photo of my car built by me when I was fourteen, at the age of sixteen now. Note My Initials on the sine, C.H.H. Hoping You will take enough interest in me to ansewr this in spare time.

Present Address, 73-Coming Street 6956
Charleston, S.C.

Cell & Comis

## STANLEY INSULATING COMPANY

New York Office 48 Exchange Place.

IT WILL TERROSTAT NOT BREAK

Factory Great Barringson

OTIS A. GLAZEBROOK, JR.

NEW YORK CITY. April 1. 1919.

Edison Laboratories, Orange, N. J.

Attention of Mr. Meadowcroft

Dear Sirs:

Mr. W. H. Mason, formerly of the Merchants Shipbuilding Corporation, has advised us of the fact that he was employed for some period of years by Mr. Edison in connection with the Edison Laboratories. He has told us that at the present time for the many and and the state of the many of the state of the consent that the present time for the propose of and the state of the many of the state of the propose of of the Edison Company.

We have a proposition that demands the attention of commons who is closely familiar with machine shop and general manufacturing problems and at the same time has the capacity for certain mork in connection with the development of our product.

We would appreciate very much indeed my information that you one give us with regard to Kr. Mamon's ability and in what direction his greatest capacity lies. If, for any reason, you would prefer not to write us on this cables, we will be a supported by the second of the contract of the meantime, thanking you in anticipation of your courtesy, we resain

\_\_ Very truly you

President.

(6860)

OAGjr/MRK Enclosure Mr. Otis A. Glazebrook, Jr., President, Stanley Insulating Co., 43 Exchange Place, New York, N.Y.

Dear Sir: -

I have received your letter of April let in regard to Mr. W. H. Mason, and I am glad to have the opportunity of expressing myself favorably in his behalf.

Mr. Loson was associated with Mr. Mison for 18 or 19 years. For most of that time he was the Chief Engineer of Mr. Mison's large Portland Coment plant at 1800 Village. As I resember it, he also took or prominent part under Mr. Mison's personal direction in the installation of this large plant.

In the year 1915 Mr. Edison been the installation of several plants for the monufacture of Bencol and Tollod, and he also beam the installation of several chemical works where we produced large quantities of themol, Antline Oil. First Phonylandishine, etc. In January, 1916, Mr. Edison released Mr. Mason from his duties at the Generic plant and old Plant at Johnstown, Pa. Mr. Mason superintended the Intellation of this plant and had cherry of its operation for two years. In March, 1916, Mr. Mason went down to Mocdward, Ala. to superintend the installation of Mr. Edison's &combined plants. He finished this job and also half,

After the installation of the Woodward Benzel plant was completed and its operation commenced, Mr. Zdison brought Mr. Mason to Orange to assist in the completion of some chemical processes and he also placed Mr. Mason in oherso of one of our large Chenol Plants.

Much to Mr. Edison's regret Mr. Mason voluntarily resigned in 1917 to accept a position in the Merchants Shipbuilding Corporation. The parting was entirely friendly, Mr. Mason's reason for leaving being that he saw a larger future and new experience. Having given you the above record of Mr. Hason's work and activities, I think it will scarcely be necessary for me to add any words of commendation as the above facts speak for themselves.

Yours very truly, and Yours For the Victory Loan,

Assistant to Mr. Edison.

A/6860

April 15,1919.

Mr. Gan C. Yee, 233 West 107th Street, New York, N.Y.

Dear Sir: -

Mr. Edison has returned from Florida and I have one more brought to his attention your letter of March 8th.

Possibly you may have obtained a position elsewhere by this time, buttif not, Ur. Eilson wishes me to ask you what weekly compensation you would expect if he gave you a position in his Laboratory.

Yours very truly, and Yours for the Victory Loan,

Assistant to Mr. Edison.

A /6924

April 18,1919

Mr. Cecil H. Harris, 73 Coming Street, Charleston, S.C.

Dear Sir:-

Your letter of Merch 30th has been reseived on my return from Florida. I quite appreciate your wich to go to school another year, if you have the opportunity, but let me say that I will give you a chance in my Laboratory, either now or noxt year.

Yours very truly,

A/6956.

3 Gates Place, Broad Street,
Charleston, West Virginia,
April 18th., 1919.

Mr. Wm. H. Meadowcroft,
The Edison Laboratory,

Orange. N. J.

Dear sir:

Thank you for your favor of the 15th. inst., forwarded to me from my New York address, and the kind attention which you have given to my application.

As I have not made any application elsewhere since I wrote to Mr. Edison, I am Free To accept a position any time. As to the compensation, I would expect thirty-five dollars a week. Seeing the opportunity of learning by associating myself with you people, I would start at a low salary with favorable chances for advancement when my work should show any mertt, such as accuracy, efficiency or originality.

Yours very truly,

6974)

Gan Cyce

Cecil B. Barris TROYXALABAMA

x898x30% 73-Coming, Street. Charleston, S.C.

April 22,1919.

Mr. Thomas A. Edison. LLewellyn Park, Orange New Jersey.

Dear Sir :-

I received the surprise of my life today upon reading your letter, offering to give me a chance in your Latoratory and I appreciate very such your interest in my desire to go to School. I never ureased I would be offered such an opportunity and I wish to say that I will report as instructed, any time and I wisk to say that I will repute as instituted, any whole you find time to do so, immediately after I finish a special course which I wish to take this summer. Lam going to Troy Alabams, my home town, about the first of June and take the opportunity offered me in school. I am going to spend my entire time opportunity offered me in school. I am going to spend my entire time oppositive or term me in school. I am going to spend my studying untill the first of September as summer school will be out then. If it convenient I will report to you at any date after september lst. I will be at your service and will start ANY where you place me and work my way up. Thanking you again and again for offering me such an oppotunity;

I am Yours Very Truly,

Charleston, S.C., present address.

Afiter June 1st. 427-North 3 Notch St. Troy Alabama.

7/w. 160.

Thomas A.Edison Laboratories

Almas a Education

ORANGE, N. J., U.S.A.

April 25, 1919.

Mr. W.H.Meadowcroft,

Laboratory of

Thomas A. Edison.

Dear Sir:

Confirming recent conversation having reference to position, in Experimental Department, which may be open and in accordance with your advise to me I herewith make application for same.

I am at present employed in the Engineering Department (Draughting) having served practically four years in this Department and during that time have never been late for duty (I mention this to show that I have always practiced punctuality).

My reasons for changing positions is that as I am a young man, 20 years of age, I believe I should now obtain practical experience now in order that I will be better prepared for the future.

I have already served time in connection with some of Mr. Edison's Experiments having assisted Mr. W.H.Knierum with whom you are no doubt acquainted while he was engaged in special work at Morristown and New Poundland, N.J.

I am a graduate of the West Orange Grammar School and have attended the Vocational Schools (Evening Sessions) for the past three years, and reside with my parents at \$58 Gaston St., West Orange, N.J.

Hoping you will give this application your usual careful and kind attention I beg to remain

Oincomol = monan

George & Hast

GH/HS

M. Gdison Stavel Orange, W.J. Dear Lin; Could you possibly await the services of a technically trained young wan, with ambition, - chancey by industrious, reliable and expelle, so if it beggens to by any vacancies at gresent or in the fifture, I would esteem it a great favor, of you would please advis ment if interfected. gerate, at green of age, single, lest desiring new commission. Have technical training in chemistry, with thousand theorities knowledge of some, with actual gradier and 3 years varied - analytical, manufactoring and essaying experience I am thoroughly qualified to arenne any responsible positione in my technical branch. I can refer you as to charac. ter and ability to ner. H. Noffman, 32 Flushing Avr., Berelyn n. y. + m. E. L. Flack, of anithe steel to. Harrison, n. J. other upon request.

Shouts ing you in out of galin, I come your bruly, Law Bernet s.

Eay 2,1919.

Mr. Louis Bernabo. 853 2d Avenue. New York, N.Y.

Dear Sir:-

Your letter of April 28th has been received, making application for a position in Mr. Edison's Laboratory.

Hr. Edison likes to have the photograph of the applicant when application is made by mail. Usually, he wishes to know also what weekly compensation the applicant expects to commence with.

If you have note photograph convenient, you can let me know how much weakly compensation you would expect, and I will present the application to Br. Adison.

Yours very truly,

Assistant to Mr. Mison.

A/7073.

#### WAR CAMP COMMUNITY SERVICE

ONE MADISON AVENUE, NEW YORK

MSP:HM

BUDGET COMMITTEE

Mr. William H. Meadowcraft Edison Laboratory Orange, N. J.

My dear Mr. Meadowcraft:

We are considering Mr. A. M. Kennedy of Muscle Shoals, Ala., for a position as community organizer with War Camp Community Service: Your name has been given us for reference and we shall appreciate your frank judgment of Mr. Kennedy which we shall of course regard as entirely confidential. Our need is for men of broad social vision, executive ability, and strong personality with power to inspire a community and carry out a strong program. We are interested to know what you consider his strong and weak points and to have any other information which you consider valuable for us.

Mudelline S. Pearson

May 5, 1919

May 6,1919.

Miss Medoleine S. Ponrson, War Camp Community Service, Inc., 1 Endison Ave., New York, N.Y.

Dear Liss Pearson:

I have received your lotter in regard to Mr. A. E. Kennedy, of Lusale Sheal; Ala. I have a high eathern for Ur. Kennedy and regard him as a gentleman in every sens of the word.

The services which Hr. Kennedy rendered to Er. Edison while in his employ did not call for the exercise of the pertionist kind of talents which you exercise of the pertionist kind of talents which you cannot not be a superior of the pertion of th

You will soe I am at a loss to express an opinion as to his ability to undertake the work you have in mind, as there was no occasion to exhibit any trace of the Eind while he was with us.

Yours very truly,

/8226

Hindly consider my applicating for a position as qualified chemist with your concerns on Have had purtient experience since the year 1913 to present ) am a Com State Guduste 13 32 years ald and can furnish you with the last of references Should you enside my opplication I would be glad to hold an intermien with you any day this or next

254 h. 32 ml Str. 810 Broad Str. Musans h. Dear Siv , On ryely to your aar, in todays Cheligram, bug to State, that I am a Gramit of Jiften gras experience, and aler a comprand of music, as were as a grad Sight render. Cam ingrume very early haring strained Therry and com. Gostin. Will be Gleaned to. hear Jum Jun. Jours truly 11 o'clock Deymon Firsth

1956 Crotona Parkway New York, May 18, 1919. m. w.a., 810 Broad Street, X locks grad Newark; W.J. Wear Sir: For the last few years I have been improvising songs on the piano, but always only for my own amus-ment. Now however, since I have blen discharged from the United States dony, and it is sodif. ficult to find suitable employ ment, I am thinking seriously about improving in order to larn some money. I would be pleased to hear of your profosition; and if it appeals to me, no cloubt, we will be able to come to some ugreement.

Nevy truly yours,

Herbert a. Malino.

May 21,1919.

Mr. M. J. Gardella, Berkley Hotel, Newark, N.J.

Dear Sir:-

Your lotter of May 18th applying for a position as Chemistan be been received. Er. Milson wishes a service to the been received. Er. Milson wishes may be in the rear future. He sursests that you might call hore at the leberatory and he will have a word with you.

You had better time your call for the afternoon between 2:30 and 4, and telephone me before you come up. Call 6800 Orange and sak for Mr. Mesdowcroft.

Yours very truly,

Assistant to Er. Edison.

A/7183.

C. E. Nestick , Chief Chem . Edger Thomson Mis.

Char Landers - Heroules Power, 6, Willing British Commits John J. Stewarence

May 23,1919.

Mr. Seymour Furth, 254 W. 52d Street, New York, N.Y.

Dear Sir:-

I have received your answer to my advertisement for a piece player who can improvise.

If you are willing to some over here for an interview, next Ponicy at 11 o'clock, A.M., I will pay your our fores, both ways.

Yours very truly,

W. H. Meadoweroft,

Assistant to Mr. Maison.

#

May 24,1919.

My dear Mr. Hurley:

I understand that my friend J. Jarvis Butler, who is now Chief Clork of the General Board, Mavy Department, has made an application for appointment as Secretary of the Shipping Board.

while I was working on experiments for the Bary Department, Secretary Daniels kindly allowed Mr. Sutler to cooperate with me in connaction with any work I had to do in "sealington. It is had been most without and the most without and that. He is a clear headed man, possessed of that uncommon thing, - common sense - and is intelligent, resourceful, quick and comprehensive in his work. I have a high opinion of him and think would be a valuable acquisition for your Board.

Yours very truly,

108

Mr. Edward N. Hurley,
President,
U.S.Shipping Board,
Washington, D.C.

254 Jr. 52 ml Sh Thomas a. Edison Ery. West Orange M. J. Estemed Siv: Relative to the litthe music Section me had today, I tale The titisty to State, That I get almost empident that I am the man you boant to file that vacancy, and I write The fetter just to Efate, That when you finally make your celes time I that you will got me a special colsideration, as I am long much interested Jum a Delemal Stand Sout ile zon idea.
Thating you mill not consider.
This fether presumption of and with best wishes to Mr. Penadas FRED'K D. LOCKWOOD 111 BROADWAY

NEW YORK CITY

The strong has been been been the or their or the strong the stron

Doar Mr. Edigon:

Before leaving New Jersey Products, Incorporated, I received the enclosed letter from Mr. Emery. About that time Mr. Charles Edison gave me a letter to the War Department, and later he sent me the kindly note attached. All of these were much appreciated, and especially the last one.

And now, since the War is over and I am established in business for myself, I want to ask if you will kindly send me a letter, signed by yourself, regarding my services with you, first as salesman and later as manager for the Chemical Sales Division, which was taken over by New Jersey Products.

I want to assure you that I look back upon the few months of association with you, Mr. Meadowcroft, and others in the Edison Interests, as some of the happiest and most profitable in my life. I learned much from the association which has been of great value so far and will be of increasing value in the years ahead. While I did not De of increasing value in one years ancau. While I am not have the pleasure of working directly under you instructions, I worked for you to the best of my ability. As I look back there are two regrets regarding my job there; first, I did there are ver ergeres regarding my job where, life, I due not have a chanea to write with you as closely as I wanted and, second, my experience had not been broad enough to enable as to make the most of every opportunity. I have been amply rewarded for whatever work I did but truet you will grant me the favor I am asking.

With Kindest personal regards, I am,

Truly yours.

To Mr. Thomas A. Edison.

Orange, N. J.

1956 Crotona Parkway, Mear Sir: You will recollect that interviewed me last week for the position of piano player and as I have heard nothing from you I thought that I would like to know why. The position one that appealed to me and I am confident that I an improvise well enough to hold that position successfully I told you when I saw you the change of obtaining a good position I have graduated from ordis High School and have completed year of academic work at the College City of New York, besides having worked for two years before entering the Army, and if the piano playing position

is already filled, won't you consider me

for a different one? I am anxious to become connected with a large, progressive concern, and now that I have had such an opportunity I do not like to let it pass by me without attempting to take advantage of it.

Hoping that you will consider this application, I remain,

Yours very truly,

Herbert a. Malino.

June 5,1919.

Mr. Horbert A. Malino, 1956 Crotona Parkway, New York, N.Y.

Dear Sir:-

and shown to Mr. Adson. He wishes me to say that the musical position he had in mind has not yet been filled, as none of the applicants were entirely satisfactory for his purpose.

However, he says that he can give you a job temperarily at \$20.00 per week on experimental work. This would enteil your living somewhere near the plant. If you decided to accept, you can come over on Monday morning next. short 9 o'look and ask to see me.

Yours very truly,

Assistant to Mr. Edison.

A.7306.

June 9,1919.

Mr. F. D. Lockwood, Suite 707, 111 Brondway, New York, N.Y.

Dear Mr. Lookwood:

which Mr. kdison has written to you, and am clac returning herewith the letters of Mr. Charles Edison and Mr. Amery, which you sont with yours of Lay 28th.

I hope this will all be satisfactory to you. With kind regards, I remain,

Yours very truly,

Assistant to Mr. Edison.

Enclosures.

A/7347.

## [ATTACHMENT/ENCLOSURE]

June 7,1919.

Mr. Frederick D. Lockwood, 111 Broadway, New York, N.Y.

Dear Sir:-

I am glad to learn from your letter of May 28th, that your duties in the War Department have come to a close, and that you are now established in a business for yourself.

Although you and I did not come much into Chemical Sales Division, I receive ifrom time to time quite feverable reports of your activities for the Salson Interests, and have no doubt that if you put into your own offici

With all good wishes for your future, I remain.

Yours very truly,

Α.

ANDREW H. KUHN ORANGE, N. J. June 12th. 10/9, (lesk of he is a glass blows) Thos a. Exison Inc. adors he do work at W. Orange, bentlemen: - Desire to learn whethy you can use a gloss worker in won't "con use a gloss worker in your plant who can turn out the work you Haffen Av Know that you have various kinds of glass work done by individuals and if you believe at to your advantage to have same made it West Orange, Kindly inform me when I can get an interview Respectfully. (7388) Hadren A. Kuhn

School P.O. Va. June 15 1919. Mr Thomas A. Edison Dend Shoks + say I may East Orange, new Jurey. have any opening Dear Sir: 7426 Would you please have the hindeness to consider me an applicant for a position as Chemist in your Laboratory I am a 1912 graduale of The Bennsylvanis Glate College course in aquellural Chemistry. My wherence has been limited to three year look as assistant Chemist at the Vermont agricultural Experiment Station Burlington It, one year as Science reacher at / Kystone acadimy Factoryville Pa, one year as Science Seather at Bellava Falls 1.7, from Sept 1 1918 to Jan. 1 1919, as Chemist at the Western Carkidge Co Springfield Ill, from Jan 1/9/9 to March 1/9/9 as Science Jeacher at Eastern College Manassasla, and from murch 1 1919 ar leacher as Laurel Industrial School School P.a. Va.

you are doubtless wondering at the rumber of positions I have held. The main reason I laught in so many place is because I supposed that teaching was a better plan to obtain recognition. After almost three years work along that line I have dicided that from both a professional as well as an educational viewpoint Industrial Chamistry is far ahead gale teaching work and offers a far wider field.

Chould there be any varancy in you laboratory that I can fill I certainly will strain every file in my body to make good.

Pau 33 years of age, single, 175 pounds in weight, six feet in height, a Prestylerian in religion, 100 per cent american and hate the Hum.

Should you disire a reference please write to Mr C.H. Jones Chamist of the Vermont agricultural Experiment Station Burlington Vermont. Hoping that there is a vacancy in your laboratory that I can fill and assuring you that an early reply will be highly appreciated Gremain Respectfully yours C. G. Williamson

ANDREW H. KUHN 17 Morris FrE, Mr. Madowcraft Sir . In reply to your inquiry If the 14th inst, as to whether I am engaged in glass work, not since There arrived from over seas but have been employed in newark up to the time of my enlestment last July, in that branch of work. Do not take work at home but did preveous to 1918. Trusting that the information will be of use to you, There the honor to be, yours obediently (7416) Andrew H Kuhn

Secret dine

June 18,1919.

Mr. F. D. Green, Room 746, Customs House; New York, H.Y.

Dear Mr. Green:

In accordance with our telephone telek this aftermoon, I am sending herswith all the papers we have in relation to Hichel C. Korsunsky. You will see there is a letter of June 5th end my reely of June 5th, and a postal cord addressed to Hr. L. Ott at our Laboratory, also a business card-of Hr. Horsunsky. He dame here the day following the dake of my letter and was engaged and told to come the matt morning at 9 o'clock

He was late in coming the next morning, but explained that he had missed his train, and being a stranger had not storted early enough. Mr. Edison put him to work in the Chemical Laboratory.

on last Saturday morning Mr. Ott, who is also in the Chemical Laboratory received the enaloged postal card. While Normansky had told him the day before the collection of the

I offered to pay him is salary for the few days that he had been here, but he absolutely declined to accept it.

You might let us know what you find out about

Yours very truly,

Assistant to Mr. Edison.

- Enclosures.

Day we have no glass Ws H Meadow craft blowing work at present but we working owen Dear Sir- Un restonce to your letter glasslower, will satisfact place person gyed at the work for gute I long while and claim a fair share of property, so much so, That if you care to pubmit blue frint for cample of work, or working data will make up reveal for your critical examination am employed at present by a concern in drage who I do not care to inform at present of my contemplated charge; and do work for a member of this concern, who, has been doing work for you since last July, or earlier, so if his work to satisfactory, believe mine would be. Thanking you for the courtery of a riply Andrew H Kuhn

School P.O. Va. Mr Helleadoweroft, June 20, 1919. Assistant to Mr Edison, Day 9 well start Orange, new Jersey hum at \$20. per De as Sir: - I am sending you my photograph as requested by you in your letter of June 19th. Hoping to receive a favorable reply from you in regards to my application for a position with your concern I remain Respectfully your C. G. Otilliamson



# Southern Express Company

102 North Three Notch Street

HORACE McBRYDE, Agent

Mr. Thomas A. Edison,

Dear Sir:-

Enclosed You will find your last minder, regarding your giving me a chance in your laboratory.

I am now ready to report and am writing for information as to how to report and etc.

I am very proud of this oppotunity and assure you that I will make the best of it I possibly can.

Waiting to act upon your advice, I am,

Now at, 427-North 3, Notch St., Troy Alabama.

### [ATTACHMENT/ENCLOSURE]

Cuble Attress "Edison NewYork"

mNowere From/theLaboratory Thomas A. Edison; Orange;NJ\$2711 26,1919.

Mr. Cecil H. Harris, 73 Coming Street, Charleston, S.C.

Dear Sir:-

Your letter of April 22d has been received and shown to Mr. Edison. He says that when you have taken adventage of the additional schooling and are entirely through, you can write to me and I will arrange the matter.

Yours very truly, and Yours for the Victory Loan,

Way Meadower of & Assistant to Mr. Mison.

A/7019.

June 24,1919.

Mr. C. G. Williams BV. School, P.O., Va.

Dear Sir:-

Your letter of June 20th, together with photograph has been received and your application and photograph were submitted to Mr. Edison.

He wishou me to say that he has as opening in his chestel laborator; and that if you are willing to make a will be dead of the will try you out. If you wish you could be not next to you wish you could be not next to a week from Monday, as you may wish to spend July Fourth at home. Place a lat me inow your decision.

Yours very truly.

Assistant to Mr. Edison.

W.H.Meadoweroft/s

Dahland At. Lexington, mass. July 2 1919. Oronge Ñ. ۶. bear firs: - How you are opening for a mechanical research and development engineer? am a university graduate with a few years experience and seeking am opening wherein the art of mechanical invention can be practiced. bery truly yours. J. B. Breman. end Choto J

July 3th, 1919 Mr. Edison: that awing to a readjustment in my family's interests I am obliged to return home in a few weeks. resignation, to take effect July the 15th. very pleasant memories of the days afent in your Laboratory and of the men have come in contact with, both here and at Silver Lake. Respectfully, R. Noguers

nogen

July 7, 1919.

From: Thomas / Edison, Orango, New Jersey.

To: State Department, Suresu of Resports, Mushington, D.C.

Subject: Passport for Robert Moguers.

This is to certify that the above named Mobert Foguera has worked for me in my laboratory about eighteen months, and has always conducted himself very satisfactorily. I understand that he wishes to return to Colombia,

South America for business reasons.

QUPOND

E. I. DU PONT DE NEMOURS & COMPANY

WILMINGTON, DELAWARE

PERSONNEL DIVISION

Day hat he was here July 18, 1919.

Thomas A. Edison Co., Okenion, Orange, N. J.

Gentlemen:-

Dr. Wm. Kuckro in applying to this Company for a position has given your name as a reference.

much if you would appreciate it very much if you would give us your opinion regarding Dr. Kuckrespersonality, ability, and any other points that you think worth mentioning. We are enclosing one of our regular reference forms, which may be of until the control of the control o

We trust that you will find time to oblige us.

Yours very truly,

PERSONNEL DIVISION.
BY allan & Henry

PWF:EB

nv. Edwar

fermen and was here only a few months

in about 1908.

measowers

sakland It Lexington Mass uly 21,1919. WE want an Ww. W. H. Meadowers H. | Experimen Edison Saloratory Orange N.J. How much as the face.
Dean Sir: What experience I have had has been gained in supporting and educating myself since thirteen years of age. From that age to the time Dentered Harroad I had an overage of one job per year among which worked as a manual worker for the following firms Penn. R. R. Drie. R.R. Charry trolley Front Steel Co.

year working on plans of method of assembling Handond Vil Co. Notural Jac Co. of No. Va. Union Britch & Devid Co. Northern Ohio Transfrom Co. ply stock for cord tire which eliminates weaving of cord Notional Transet Co. tive fabric yet gives a lightme from Tiret Rubba Co. cord multi-ply cord tire. Tentered Haward in 1911. Basic potent is allowed others applied for 28 years of age graduated 1915, and spent one year thereofter in graduate work. Lines 1916 have been supporting plan to devote my life to research my family on my earnings and invention. as special today and using being truly yours. J.B. Brennaw. my beising time in development of inventions and research.

#### EDUCATIONAL BUREAU OF CHINESE MINISTRY OF EDUCATION 2016 Nineteenth Street Northwest Washington, D. C.

July 24, 1919

Director, Thomas A. Edison Laboratory, East Orange, N. J.

Day : 4 22 work to very outer he is very delegent and intelle

My dear Sire

I beg to take this opportunity of expressing to you my hearty thanks for the courtesy and kindness your Company has extended to the Chinese Government students in your employ. The practical training offered to them by you will, no doubt, be a great asset to their future career.

I shall further appreciate it greatly if you will kindly send me a statement for each of the Chinese students in your employ as per enclosed list concerning the quality of his work for the past year. This is required in our annual report to the Chinese Government at Peking.

Thanking you in advance for the trouble, I am

Yours respectfully,

Director.

Name of the Chinese student: Yee, G.C.

July 25,1919.

Chemical & Metallurgical Engineering, 10th Avenue and 36th Street, New York, N.Y.

Gentlemen:

SEARCHLIGHT SECTION:

Will you please insert the advertisement written out at the bottom of this shoot in your issues of August lat and loth. Please send the bill to me and I will have our Cashier make remittance.

Will you kindly arrange to mail any roplics under another cover, addressed:

Thos. A. Edison. )
Orange, B.J. )
Atten:
Mr.Mesdowcroft.

Yours very truly,

Assistant to Mr. Edison.

WANTED: Practical manufacturing Chemist wanted, one capable of taking entirecharge of Works manufacturing, a moderate line of inorganic chemicals with full knowledge of analytical chemistry. (Address C.G., Chem.& Met.Engrg.)

## [ATTACHMENT/ENCLOSURE]

Decutedo

Practical info chemist is autad one when the Capable of taking Entire a hours of a minderate works in for a minderate them of the Knowledge of chemistry of the C.G. - Have the deeper Chem & Met. Eggg

Drug & Chemical Markets, No. 3 Park Place, New York, N.Y.

Gentlomen: . .

Will you please insert the advertisement written out at the bottom of this shoet in your paper, every week for four weeks. Please send the bill to me and I will have our Cachier muke remittunes.

Will you kindly arrange to mail any reolies under another cover, addressed: \_

Thos. A. Edison,

Orange, N.J.)

Yours vory truly,

Assistant to Mr. Edison.

WANTED: Practical manufacturing Chemist wanted, one capable of taking entire charge of Norks manufacturing a moderate line of inorganic chemicals, with full knowledge of analytical chemistry. Address C.G., this paper.

July 25,1919.

The Journal of Industrial & Engrg. Chemistry,

Easton, Penna.

Gentlemen:

Will you please insert the advertisement written out at the bottom of this sheet in your issues of August let and September let. Please send the bill to me and I will have our Cashier make remittance.

Will you kindly arrange to mail any replies under enother cover, addressed:

Thos. A. Edison. Orange. N.J.

(Atten: Hr. Meadoweroft.

Yours very truly,

Assistant to Mr. Edison.

WANTE): Practical manufacturing Chemist wante, one capable of taking entire charge of Works manufacturing a moderate line of inorganic chemicals, with full knowledge of analytical chemistry. Address C.G. c/o This Journal, Easton, Ra.

ISSUED EVERY WEDNESDAY

# **DRUG & CHEMICAL MARKETS**

ESTABLISHED IN SEPTEMBER 1914 AS "WEEKLY DRUG MARKETS"

D. O. HAYNES & Co. Publishers No. 3 Park Place New York U. S. A. Subscription:—U. S., cuba and mexico, \$4.00; canada, \$4.50; foreign, \$5.00 a year in advance

New York July 26, 1919

Thomas A. Edison, Orange, N. J.

Att. Mr. Wm. H. Meadowcroft.

Dear Sire:-

In reply to yours of July 25th, we are pleased to insert the Want Ad which you enclose in the next 4 issues of DEUG & CHENICAD LARKETS, and will have the answers forwarded to you as you request.

This ad counts 32 words, our charge for which will be \$1.28 an issue, or a total of \$5.12, as per invoice herewith enclosed.

and if you care to write us nor an actual as to your recognitions in the plant of the same deal as to your reciproments, it may be that we can send you same deal make applicance. We would also suggest that you file your application with the Manjoupent Department of the Chesists Chub in 4lst Street, New York, if you have not already taken this action.

Very truly yours,

D. O. HAYMES & CO.

enc.

Do this

Park Holel Orange M.J. July 26,1919, Mr. J. A. Edison Edison Laboratory 7613 Orange M.J. Dear Sir: In there any possible manner that I can obtain reinstaliment in your laboratory? your noll of dismissal on Thursday was like a bolt of lightening from a clear sky and so far I have been unable to fathow the reason there of. The problem you gave me - to. make a mixture of Borax, clay, and Magnesium pyrophosphale - was practically solved. The first wix livre was too low in melling the second was too high and the third would I am sure be just what you

wanted, 1100°F.

If there was any reason for my dismissial aside from the one you gave me when I called you up on The telephone Thursday might it is beyond in. I was delayed in reporting my results to you on the last unxtiere because I was helping Mr Oll with some problem you were trying to solve and from which you wanted the results at once. Mr Edison doesn't it seem rather sudden to endevor to change a leacher into a churist in a little over two weeks, and that was the main reason I spent so much time in the office. If there is anything in my febronal character which you dislike please let me know and should you see fit to give me another trial I will do my best to eliminate that characteristic of which you disaprove.

Storge, the other young wan who was working with those unbreakable battery plates I was merely asking for information in regards to them. Hoping to hear from you at an larly date became I certainly was interested in the work you are doing and would appreciate it very much if you would give me another opportunity I remain Respectfully your

230 Woodbing St. Thomas a Rdison Inc., Mi Edes! Being desirous of obtaining as chemist with your I am a high school graduate and have completed the chemistry course at Gratt Justitute I might state that at the time of graduation from Gratt, I received the medal awarded to the student having the best record for the three years work.

I have had two and a half years business experience at analytical work, having worked a year and a half for the Billyr mion Has Co., and one year for the Brooklyn Edison Company. for the Brotelyn Count of these of these concerns as to my character and ability as analyst.

This you fail give this affiliation favorable considering Yours truly, Frank Detlef Jr.

1 Oakland St. Legington, Mass. fuly 2 6 1919. Mr. H. Meadowardt Day 9 will question Edison Faboratory a chaque to show what orange Mil he cando at 40 per Dear Sir: at the start, if there should be an opportunity, your judgement of what I should been will be acceptable to me, My present thought is that about 3400, per year would be reasonable without undue risk on your part. Ventruly yours, (1624 JBBrennan. well reuse it higher be greater for Com come on Aug 20 th.

July 28,1919.

Mr. W. Y. Yon, Director, Educational Bursau of Chinese Ministry of Education, 2015 Hineteenth Street, B.W., Washington, D.C.

Dear Sir:-

Mr. Mison wishos me to say in roply that Mr. O.C. Yee is employed here in Mr. Bilson's preuomal Chemical Laborator, and his work is vary actisfactory. He is very diligent and intelligent, and is well liked:

Yours very truly,

Assistant to Mr. Edison.

A/7617.

July 28,1919.

Fark Hotel, Orange, N.J.

Dear Sir: -

Your letter of July 26th has been the cannot reinstite you in the laboratory. Then you made your application to his originally was under the impression that you had a greater knowledge of chemistry, but found your ability did not one up to his requirements.

Yours very truly, idison laboratory.

July 29,1919.

Mr. J. B. Brennan, One Oakland Street, Lexington, Mass.

Dear Sir:-

You'r letter of July 26th has been received and shown to Mr. Edison. He says that he will give you a chance to show what you can do, and start you at \$40 per week. If you are successful, he will increase the salary.

If this is acceptable, please come on Monday August 25th. For that one morning you can get here about 9 o'clock and ask for Mr. Altengarton, my Secretary, as I expect to be away on a vocation. Hr. Altengarton will attend to your soning Mr. Edison.

Yours very truly.

Assistant to Mr. Edison.

A/7624.

July 30,1919.

Messrs. D. O. Haynes & Co., 3 Park Place, New York, N.Y.

Gentlemen:

Your letter of July 26th was received and shown to Mr. Edison, who appreciates your suggestion that you can possibly send him some desirable applicants. Er. Edison's requirements, as stated by himself, are as follows:

"I want a real factory Ohmsist who is "compable from experience to take up the menu-"facturing of any of the standard chemicals "in, say, Ohns. Gooper's Company's list, "instell the apparetus and produce goods "who for the produce special company" of the second company of the company of the

Let me suggest that if you should put any applicants in touch with ir. Edison it will be well to write to him first to make an appointment and refer in their letter to the fact of your having suggested the interview.

For your information, I would say that Mr. Edison is going away on Monday next, to be gone two weeks.

Yours very truly.

Assistant to Mr. Edison.

## [ATTACHMENT/ENCLOSURE]

Messi D. O. Hayres 160
Gentleman: your taller of July 26th was
received and strong to the return to
send him some delivable applicants - 10 hims
officerate your surprisers that you can be seen as the seen of the form for deliverable oppositions. Mr. seems 19 arguments, as stated by beyond, as as fellows.  19 want a stead factory
"Chemist who w capable
" from Experience to take
" up the major of any of the
" up the hufg of any of the " standard Chemical" say,
" Char Cooper & Coo
" list, materit the apparalus
" and produce goods
" which Can be sald
" in Competition x
" One who from Exponence
" Knows the actual best
" poratice in Chauscal
" work & the theoretical
"side as well"
Let me suggest that if you should that any applicants in touch with me Educate if wice he will to write to
ful any applicants in touch with his lace to write to

### ATTACHMENT/ENCLOSURE]

From first to make an approximate and refer in their letter to the food of your having suggested the witerness.

For your information I would say that the below is going away on monday next, to be gone two weeks.

Assistant to no Edward

July 30,1919.

Employment Department, Chemists Club, 52 East 41st Street, New York, N.Y.

Gentlemen:

Mr. Edison is looking for a Chemist whose qualifications are described in the following advertisement:

> . WANTED: Fractical manufacturing Chemist, one capable of taking entire charge of Works manufacturing a moderate line of inorganic chemicals, with full knowledge of analytical chemistry.

Applications may be addressed by letter to Mr. Mison and sent to this address at any time after August 16th.
Yours very truly.

Assistant to Mr. Edison.

July 30,1919.

Mr. Geo. Meister:

hr. Edison has engaged a boy for his
Chemical Laboratory. His name is Cacil H. Harris, ,
and he is to sturt work on August 25th, 1919, and to
receive \$15 per week to begin with.

Will you kindly give this matter your attention.

W.H.MRADOWCROFT.

Brooklyn, n. y. July 30, 19. M. Wm. H. Meadowcroft Laboratory of Thomas R. Polison. Urange, New Jersey. kind favor of July at twenty fire 2. feer week. Hoping this will meet with Dyour approval, I am,

at 9 o'clock to Mr. alke orshed for his thete orshed information it out on his wife wanted it of one he had grant to one he had grant year

August 1,1919.

Mr. Frank Detlef, Jr., 230 Woodbine St., Brooklyn, N.Y.

Dear Sir:-

Your letter of July 30th has been received and shown to Er. Edison, who says that he will give you a position starting at \$20.00 per week.

report for work on August 25th, about 9 o'clock. You can come to the Laboratory and ask for Mr. Altengarten, and he will bring you in touch with Mr. Altengarten.

Yours very truly,

Assistant to Mr. Edison.

230 Woodbine St. Brooklyn, N. J., Aug. 2, 19 Mr. W. H. Meadoworoft Lamatory of Thomas a Edison Change, New Jersey. Dear Sir: Your favor of august 1st received about will be pleased to accept the position as offered, provided the salary will be increased as soon as I hart proven my ability. as I have resigned my frontion at the Brooklyn Edicon Company, I thought hear to mention same because of the date your states for me to commine at your latoratory. If, for any reason

you proud prefer my commencing sooner, I am able to do so.

If I do not hear from you in the mention, I will be one to meet Mr. altergarten on august 25 %. Respectfully yours, Frank Detlef J.

## [ATTACHMENT/ENCLOSURE]

In Edward said he chected to be home about a come a week cartier?

126 West Erie Street., Painesville, Ohio. August 3, 1919.

C.G. Journal of Ind. and Eng. Chemistry, Easton, Pa.

Dear Sir:-

In reply to your inquiry for a Chemical Manufacturer, who is a chemist-

I am an American, married, forty one years old, received the A.M. degree in 1900 and the A.M. in 1910. I was engaged withmone of the largest chemical factories in the state for seventeen and half years, most of the time as chief chemist, and as an executive in the factory, designing and installing and operating new departments.

I have always been in charge of men in chemical factories, and am in a position at this time to consider a proposition- should you feel justified in making one.

Yours very truly,

HEKreider.

 $\left(\sqrt{1_{2j}}\right)$ 

Day an sorry he is so feel from Arrange 1/14, 9 cannot have accept an Engineer who of have not seen secross frammed as to his Experience a gradefication to his Experience of malefront he should but if for any secaron he should be with he happened to a my he could come over tree me

PRICES SUBJECT TO CHANGE WITHOUT NOTICE ALIO UNLESS IN WRITING AND BIONED BY AN EXECUTIVE OFFICER OF THIS COMPANY WE M. GROSVENOR, PH. D.
CONSULTING CHEMIST AND FACTORY ENGINEES
CHEMISTS BUILDING, 30 EAST 4155 STREET

CAPLE, CHEMATCH HEM TORK

August 4th, 1919.

P-185, Chem. & Met. Engineering, NEW YORK CITY.

#### Gentlemen: -

A reliable experienced practical manufacturing chemist with sound theoretical training sugmented by practical commercial experience in various fields will be available to you about September let, at a minimum beginning salary of \$4000 per annum. I trust that when you have read the appended description of my experience and qualifications, you will share with me the belief that I am "just the man you are looking for".

I am 27 years of age, speak, read and write Spanish, read German, and am a native-born American of ancestors who have been native-born since 1775.

I graduated from high-school at 16 years of age having completed the regular Latin course, supplemented by a manual training course which included cabinet-making carpentry, shop-work, and mechanical drawing.

I spent the next two years on the staff of a newspaper in a little city in the Middle West after which I entered the University of Indiana, taking up Chemistry.

My work at the University included General Chemistry, Qualitative and Quantitative Analysis, Physical Chemistry, Technical Analysis

is, Spectroscopy, Polarimetry and Sugar Analysis, Metallurgy, Chemical Engineering, Conservation of Natural Resources, Political Science, Spanish, English, and Hygiene.

I left the University to accept a position as Chemist for the Fajardo Sugar Company, at Fajardo, Forto Rico. Here I had experience both in the laboratory and in the plant, I made analyses of juices, syrups, molasses, meladura, massecuites, sugar, soils and fertilisers. In the plant, I calibrated piston meters, looked after sampling and helped "drive" a gang of native peons during a strike. While there in the early part of the crop, I weighed cane for three weeks.

I left the tropics on account of a severe attack of malaria and went to the Illinois Steel Company at Gary, Indiana to take a position as chemist in the laboratory of the by-products coke plant there. That coke-plant is the largest in the world and is made of a battery of seven hundred Koppers ovens, a By-Products and Ammonia building and a Benzol and light-cil plant. Here, I made analyses of coal, coke, gas, ter, ammonia, acmonium sulphate, benzol, toluol, solvent naphtha, sulphuric acid, water and naphthalene. In the plant, I studied "saturator losses" directed sampling frequently and made a calculation and report of daily NH, production.

After about six months, I received a better offer from the Sherwin-Williams Company at Chicago (116th St.) which I accepted At first I was in the laboratory entirely, analyzing Oleums, Hixed Acids, white lead, mixed paints, oile, fats, waxes, resins and gums, varnishes and

#### WM M. GROSVENOR, Pa.D.

#### (3)

oranels, barytes, benzol, tar, acetic acid, nitrite
faustic, sinc ores, arsenate of lead, Paris Green, H-Acid, Acetanilid,
Bata-Haphthol, arsenate of lime, arsenical dips, alum, lime, acetate
of lime, dyestuffs, jacket oil, chromite ore, chromates, coal, pig lead
and lithopone.

Later I did quite a little plant work and control experiment in connection with the manufacture of Sodium Chromate from Chrome Ore. When the company decided to go a step further and make crystalline Bichromate from the yellow monochromate liquor, I was asked to go into the matter and draw up plans and estimates of an addition to their Chrome plant. This I did successfully.

Then I received the unsolicited offer of the Nordyke and Marmon Company of Indianapolia, Ind., manufacturers of the Marmon automobile, flour-milling machinery, etc.) of the position of Chief Chemist at their plant. I accepted this offer and equipped three bare rooms with a complete line of apparatus and trained a corps of three assistants, just out of college in the analysis of iron, steel, bross, bronse, aluminum, ingot copper, lubricants, enamels, waterproofing materials, cutting compounds, gasoline, etc. In addition to directing a three room laboratory, making analyses myself and making out daily, weekly and monthly laboratory reports, I had charge of the purchase of all the laboratory supplies, I also did some work on the siz calibration of pyrometers, heat-treatment of steel, and metallography. I was there during the month of October 1918 when the company received the pernant for the banner production of Liberty aeroplane motors for the Governe

(4)

Last October, I received an offer from the Block Chemical Works at Berkeley Heights, New Jersey, then manufacturers of Barium salts, to become operating chemist there in a new plant they were installing for the manufacture of crystalline Bichromate of Soda. I accepted the position but found their plant very unfortunately situated with no convenient nearby residence for my wife and child and so I only remained with them until December, Nevertheless, my stay there was successful. I started them out making Bichromate crystals satisfactorily, furnishing them with all I had learned while with Sherwin-Williams. I acted as a kind of Assistant Superintendent and Chemical Director. I guided the chemical end of production, directed the Baume strength of liquors, roasting temperatures, washing of crystals, etc., at the same time making frequent analyses in an improvised laboratory which I rigged up in a garret room of their factory which was not piped for gas of any kind . -- also sampling cars of Chrome Ore and Barytes which wamples were later analyzed satisfactorily checking the seller and the referee in every case. Shortly after leaving them and just as they were operating satisfactorily, the plant was forced to close by the death of Mr. Altshul of New York, principal owner and the property was offered for sale to settle his estate.

Last December, then, I came down to New York and accepted a position with Dr. William M. Grosvenor, whom you no doubt know as one of the country's leading consultants and patent litigation experts.

Since coming here I have done a great deal of work on an arsenate of lead patent, practically covering the field of absenates.

#### WM M. GROSVENOR, Ph.D.

#### (5)

I have also done a great deal of original research on methods of analysis (both organic and inorganic) and have been engaged recently with some extensive work on starches and vegetable veneor glues involving a large amount of original work on the determination of Specific Viscosity of various colloids and a study of advanced colloid chemistry. I have also been engaged with a separation of certain gum resins from mixtures with fatty oils.

During my association with Dr. Grosvenor I have been thrown with "big men", --such as the firm of Gifford and Bull, Kenyon and Kenyon, Dr. McKenna, Dr. J. Merritt Matthews, Dr. Parker C. McIlhiney, the Hirsch Brothers, and Mr. William Travers Jerome.

Since 1917, I have, by evening and spare-time study acquired a reading knowledge of German and am entering upon a course in business administration given by an extension university.

My present salary is § 3600 . My desire for a change is due to my ambition to connect with a reliable industrial concern where reak ambition will be really rewarded and where I will have opportunity to advance and "errow up".

Will you please treat this communication strictly confidentially and advise the writer of your decision in his case at your earliest

Very truly yours

504 West 112th Street,

West Haversbraw, New York.

P-185. c/o Ohemical & Metallurgical Engineering, 19th, Ave. at 36th, Street, New York City.

5th. Aug. 1919.

Gentlemen:- I would be pleased to arrange an interview with you with reference to your advertisement in the Chemical & Metallurgical Engineering of Aug.lst.

I have a technical education with fifteen years practical experience in inorganic chemical work, including analytical, research and manufacturing,

Am at present employed as research chemist for a concern engaged in alkali manufacture.

Maule of

M.Hauber, Jr., West Haverstraw, New York.

Handed production and read how had had a mark to be a second to the second how had a second

al & Milallungical Engineeing 10 th Kas and 36 th fa. newyork &G Vis or Having seen your of one of obove formal, admiticular trage, 1 to trace of the obser found, tucky make opplication for the position gon offer. I have how & of years of raried experience in in bordand positions, with some of the largest, beat known, and smooth up to date concerns in the Come by, either in operating copacity chief chemist deceared chamist, Thetallung int or Eury anie expect. - I can design, and operation plants for producing a full line of themy and morganic Church seed, such a Grameli and General Elecy Es, quacufaction. - Also have had some ex beiieuu, in l'iguento, Fertilique, Fine livorganic producti, and beganic Inter mideales and by in -Have invented and patented be occur. - Lithopore Barin and June producto; also Potess extraction from Rocks, Tulin - Cake toloving et., are among reperial clies - I have numerous original and numey making ideas . - " Land install mark upto date method of Plant courtine, and and, and, if necessary. After reviewing the factoring parties which I have Luced, if you want like purthe details, I would be very glad to furnice them. be, it you are interested in certain lines such as Trumides on Be Commelie of Potent or Hada, Jodium Juspaide; Hy rowspace, Phosphase Alemmis Cempends etc. etc., chan cother, and onto

What termed do along such lines

Beaufield Jeg. Hug bying

ill take too much space I go over the whole the of products when Laur familias with, as will close with und of position I have held, and which are as fallows , Grandli Elem. 60 : Grid Earnist Some Remark work department- head ( Killspann, Meido, Juliale lodo Speciera made first bates of My principale they thinged ) Beloved Smeth " Refin. 60 5 Coling Sumish, Jame Personel Am. I welk & Refu. 60 :- Research Chemick, Am. Tulat Go Ked. 1. Gryaning I, and was head of Research Wind - metallungical and Voland problems principal Butter worth Judour corp. s. Thead of theoryanic Reserve Dept naturement. Member with 3 bounds Vand skingud and Constanted a 1000000 hillspan Paul Profest process and designed and built plane for recover of sacros " per day of Education wild frem Plumed waster. - Ding and Withill of song Sulphate of Mening and other propositions. Cales Edem. Eo 1- Has enough of most informed depositment in J. St. a. Plant. - 3 mas. Received ward for Gard, on Hick Environment you Remembly - After Premotion Plant closed load Dec. was a timed as theorganic Expert. - As company is going or concentrate enting on beganic products, and down their trangenies, it was necessary to terminate my commerción wich Hoping to hear purther from your, and dead we may be able to muster lawn arranger that womes prose nuclases talispecining, Turn yours very very . S. Wander 39 kewarts and, Dlas

Day that his Experience is not . 2319 Boll Fl. Cincinnati, Ohio, of a character which August 13, 1219. e- 193, them & Mot. Ang. , of the Gran - Hill Co., would full the position of howe

ventuesen:

The writer, at present employed by a large edible olls and grease concern,
is desirous of making a change to a position more executive in nature and carrying
greater responsibilities. With this end in view, I am answering your advertisement and
entire a burie of writer of giving a brief outline of my training and experience.

Training. Analytical Chemistry. University of Nebraska B.S.

- Physical Organic Chemistry and Mathematics. M.A. Chicago " Toronto Ph.D.
- For three years Instructor in Analytical Chemistry at Uni. of Toronto.
- Experience:
  18 months in Dominion food inspection laboratory Ottawa, Canada.
  Certified Public Analyst of Canada.
  - 2 years consulting chemist for HeReeve Angel Co. (Whatman filter papers)
  - 10 months Chief Chemist for the Atlantic Loading Co.
  - 6 months Chemical Superviser of grease plant.

I would expect an initial salary of \$4000 per annum. Any further information, together with the very best of references I will be pleased to furnish upon request.

Yours very truly,

Gu N Buther

August 15,1919

Mr. M. Hauber, Jr., West Haverstraw, N.Y.

Dear Sir:-

Your answer to P-185. Chemical and Metallurgical Engineering, has been submitted to Mr. Edison.

He says that he would like to have you come over and see him at the Baborstory here the first part of the week. Mr. Edison is usually here every day, and you can see him at any time between 2 and 12 in the morning; or between 2 and 5 in the afternoon sure that Mr. Edison will be here attennoon over, we would suggest the will be home Orange 6800 and sek for Mr. Althoga the will see that you get in touch with Mr. Edison or advise you if he is not here.

Yours very truly,

Assistant to Mr. Edison.

## [ATTACHMENT/ENCLOSURE]

to come warmer to come to ment workHe can share to be owned will be here

August 15,1919.

Dr. Wm. J. Gross, 504 West 112th Street, New York, N.Y.

Your answer to P-185, Chem. & Met. Engineering has been received and submitted to Mr. Edison on his return from a little vacation.

Mr. Edison says he will be glad to have you come over and see him here at the laboratory next Tuesday or Wednesday, and if it is impossible to call on those days to telephone in just when you can come. If you call Orange 5800, saking for Mr. Altengarten, the matter will be taken care of and a proper interview orranged.

Yours very truly,

Assistant to Mr. Edison.

## [ATTACHMENT/ENCLOSURE]

Gross Gross 504W 112th Next to datage of her Cant Come telefore when he can

August 15, 1919.

Mr. Elmer E. Dougherty, 39 Newark Ave. Bloomfield, N.J.

Dear Sir:-

Your answer to P-185, Chem. and Met. Engineering, has been received and submitted to Mr. Edison.

Hr. Edison will be glad to see you at any time, the sooner the better, here at the Laboratory. He is usually here every day between 9 and 12 in the morning; and 2 and 5 in the afternoon.

When you call, please ask for Mr. Altengarten, who will put you in touch with Mr. Räisen. If you want to be sure that Mr. Räisen will be here the day you intend calling, let me suggest that you 'phone Orange 6800.

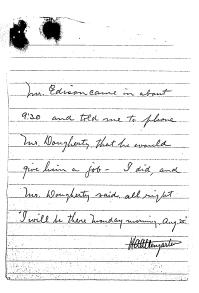
Yours very truly,

Assistant to Mr. Edison.

# [ATTACHMENT/ENCLOSURE]

While Doughesty also to tome son

## [ATTACHMENT/ENCLOSURE]



504 West 112th Street, New York, N.Y., August 16th, 1919.

Mr. W.H.Meadowcroft, Edison Laboratories, Orange, New Jersey.

Dear Sir:-

I wish to acknowledge your letter of August 15th, and to advise that I can come over to see Mr. Edison at three-thirty, Wednesday afternoon.

If, for any reason, this hour should be inconvenient, will you just telephone me? Murray Hill 1916 connects you with the Chemists' Club and the operator there will connect you directly with Dr. Grosvenor's office where you will find me from 9 to 5.

Unless advised to the contrary then, I will go to Mr. Edison's laboratories on Welnesday afternoon.

Very truly yours,

More traden'

drelia

7

If you had 50 tone of a mixture of Nickel Carbonate 80% and 80% of mixed Carbonate of Iron (Ferreous) and Ferrio Oxide, how would you separate and get commercially pure Ni 804 from it, the iron being thrown away.

Trong reparation le, Mr., Mr., Jr., Etc. from 20, 25th Ba, Deste. Prairing 3et to 3et, and presenting as Je, (OH), with Amyromia. See my answer to Question 13. Group haste in must blendy the details of this Broup peparation but Robels few it in my notes almost it an instant.

Suppose that when you got out the supposed pure Hi SO4 you found it still had Ferrous Sulphate in it and also some copper sulphate, what would you do?

The Copper could be removed by passing in Hydrogen Supplied with the 71:50 to in acid political in which ly sty, la, Sty in Bi CTC. are presentated as Sulphikes with H, S but ? in 12th.

When you precipitate a hydroxide and find it very colloidable so its almost impossible to filter it, what would you do?

Abjection at about boiling for a time will cause the factuals of the pringertate to beloom sufficiently large to felter satisfactorily.

Page 2.

### What is the object of boiling precipitates?

Colling on the one Rand to have a dealton which would other was (i.e. at lower temperatures) hat go or lowertey, or to rodalize or congulate a flue on collind preceptate. Suching the bolling the form crystal conflict of free their precede additional products after them are to trained branches, after the work additional branches after them are obtained branches, fluences particles or lumps of feren particles.

If you had a precipitate that was acid to a considerable extent and there was several tons to be run through daily, what kind of an apparatus would you use to clean it of soluable ingredients

and now would you do 12?

The presents is to acid to be prosteasely handed on a
good filter free! for in vessels of acid reducing (namely
high labore) trong, - might so beingactorly thereof pely
t allowed to bettle repeatedly in an Ensured lined tour,
Arawing off the word liquider and repeating the operation
highest the bloom liquiders no longer planed a reaction for
the board impurity in question. Or lead lined vessels
might be, depending upon the blength of the Reid.

This question is not altered the peroxidise an iron precipitate? Same is most in that altered the Clean to me, I am not family with "perstidiguing" iron precipitation in My idea. It is the mather borned to to Consolor the population through him this is to be precipitated to the former Condition the Most with retrie acid (surfacements bothered the to the Most of the any reston MADS should be observable. Then MADS of the cost of the former and the cost of the surface of the cost of the world work of the cost of the world work of the cost of they were not a world or world opening principles as MADS (cost). So cost of they work not a world or world or made or many of opening principles as MADS (cost).

6.

(a) Give the best and cheapest way for making Ferric Oxide on a large smale with economy.

(b) Describe the next best method.

(1. Is as (0) and the next best. 18103)
I am Tilings + Tulphurio Aris of Caustic Soda
21 Copperar + HNB3 + Caustic Soda

3. Coppures + MO3 + Ammoura

My Th. 3, The paw material Cost in Case (1) it appears

Mulbe Cheapers. But, thring corrything rits Come heration

believe that prices a fairly pube Coppures \$ (Ferrors

Liephate) Cau readily to offerive, mixtod (2) Might

parties as estimpathy. A reation and a variability of raw

materials world's Interior and a choice of method. I carried

Mithod (2) would under any screenward wees thick I am

able to conserve be more consumed than (3) with

the conserve by a commercial mitted with which I am

hat familiar of presiniting the iron as terrors Carty tracting with

their oridying the ppt. to 12,03 by birling with Provide (7504 to 1806).

Must apparatus would you use?

Acounting that the holding is to be brought to the ferrice Condition before the iron is free parates, open Kills of Reistructured metal would be used if vrove (metallic) was to be dressloved in acid.

Beginning with the Copperas solution this apparatus from & segment of the process of the presentation of the iron Either in the ferrous Condition (with Some ferries), by means of Joda Ash or, as ferries hydrete, by means of Claustic or Ummonia, Should that place in precipitating rate or tubs with out that place in precipitating rate or tubs with out of the product Stirring device bacosthis of the product of the product desired. I chould thing tubs such as the teles of lead areand on "Truck" in would be very satisfactory.

Page 4.

"Why are contribusal machines used in some cases and in other cases filter prosses?

A Centralizat Machine May be run after purging to party the Cryptals.

Materials difficult, filtered off on a filter press may sometimed by more Batisfactorily washed by "wo Anguey" on a Centralization Michine.

How much percent of actual peroxide of hydrogen is there in commercial peroxide as generally sold?

Arugister purparations run around 4 Volumes / 100 of sola. Disrippin is a Stonger Preparation (12 volumes). I belief there is a Morch also a Marchael preparation of 16 volumes.

What is 20% Oleum?

"A0%" bleum is bleum (furning Aulphore acid) containing 80% H2504 (100%) and 20% Free 503. 11.

What is the difference between Nickelous Sulphate and Nickelic Sulphate?

my many Nicholaus sulphate is that sulphate of nickel in which than a bower valine than the nickel compound of a offer loves neckel sulphate, the nickel (cael nickel atom) as helding in Combination mere [Sig] sulphur and oxygenatoms than it does in the nickelous Compound.

What metalic hydroxides are rather freely soluble in Ammonia? Aluminum, Niedel, Zinc - Mauganese oxide.

13.

If you had a Rickel Sulphate solution and suspected it contained iron, how would you find it out?

Next a Qualitative group departion (The details of Whiel after over 3 years of mot having used Them have Thepas my Mind. but think are tradily available in my potes) from the browning the Nickel was tradily available in my potes of Leparating the Nickel was from the brown and Throwing the brown as Je, (OH)

Compute the amount of 96% Sulphuric Acid necessary to form

HI Sulphate from 100 grammes of pure Richel.

To make NiSog from 11 and H<sub>2</sub>Sog, each Association weight of Ni, weeld require 98 gams H<sub>2</sub>Sog (1884) or 102.08 gams of 96 N. Acid. The amount of acid necessary to make NiSog from 100 gams per by would be proportional as 84. No Ni to be but of Ni, which I do not remember. Suppose the Not Wit to be 84. How for may there would be required 121.52,

15.

Which are the lightest and the heaviest metals, 1.0., Afonio Weight? I have, New an instruction in Chemistry who required the atomic being the Committee to premoting. They are to present that their not groundly forwards which memory in the property that the in not groundly formular with memorying. When all I I am always of themselves the memory in the above the their thinks are the atomic to the advance of the second the lightest of the classics the second the lightest of the second to the second the lightest of the second th

Which metal has the highest specific gravity?

Lead (?)

17.

Suppose you had a dark colored organic solution due to impurities, but in a one-gallon white glass bottle could be seen through and you wanted to clear it, what would you use? How would you use it and approximately the amount?

Menally charing up with or filtering through animal charcoal (bon black) Clears such a Solution up.

Sugar Solutions are cleared with less than 1% of basic lead acetate in solution (pupared by letting lt (C, M, I, ), restand with litharge (NO) and water for a week with frequent standing

Alumina Cream, a suspension of al (OH), in water is used for the says purpose, 5 cc or so feer 100 cc of solution to be Cleaned. A tail alumi steel prefuently is successfull employed as a clarifying agent - particularly in city water suff.

18

What metallic hydroxides are freely soluable in, say 20% solution of caustic soda? Muminum, Zine, Sin (under certain con detions) arsenic oxides, antimony

19.

Suppose you wanted to get hydrogen cheaply by dissolving scrap iron in Sulphuric Acid, how would you purify the hydrogen

Pass it Through Caustic Soda and Then Through bulbhurio acid. Caustic Would tak out any H. S or Co. Sulphurie acid dries out the gas.

20.

How is Amiline Oil made?

Andrew of is made by the reduction of Milesburght. The netro group is conserted to the Register group, the original being replaced with hydrogen with for mentioned fracts place it has agravant (non) provided with the interstings that the fee it has agravant (non) provided with the for mention and send and at earlier for mater, tarry any private, est., at the bottom. Hydrogen which replaces the organ fluing produces the Hydrogen which replaces the organ of the no group of the heterotomyof The aniline is they fraction ally distilled off to

hre you familiar with determination of Alkalies in minerals?

If a navi used the Okloropelatine and method

acts the Kindo Gladding method in rocks, plaster and cement

What kind of cloth is used in filter presses?

hate seem it sold merely as "I after Press Cloth."

It is a reasy, rithes, tough brown material but I cannot give its official name

Chromic Oxide, Cr.O.; Calcium Phosphate Co. (PO4)2. co.; Barum Sulphate Ba SO4; the Aluminosilic ates (Fig.); Calcium Fluoride ( That is, in the ordinary reagents )

What materials should not be fused in a plating dish?

Copper, Tin, antimony salts

Page 9.

25.

What kind of a motal dish is best for fusing Alkalies? Chalinum. The glaze of porculain crucials is attacked by Alkalies.

26.

What is the approximate temperature, Fahrenheit, when a thing is dull red?

foo \_ /000.

27.

Give formula for Ferrio Carbonate?

Je (CO3)3 Locald be the formula. It is my hunderstanding That by the time the ferrie ptat is reached, the Carbonate has become Hydrate.

28.

What metal has the greatest affinity for sulphur?

29.

What is Chamber Acid? Chamber Reid is Sulphuria Reid as produced by the tead Chambers, in the lead Chamber process, - to thout further Concent ration. I believe it is about 60° Ba.

30.

What is Aqua Rogia?

A mixture of Aydrochloric and Netric Acids

A mixture of Aydrochloric and Netric Acids

It may be prepared with varying proportions of

the two, its have sacard, denests Annuales from the

datu, "Poyal Main" and it was as (Called by the Alchemists

datu, "Poyal Main" and it was as (Called by the Alchemists

or accorded to the force to desorber the royal metals such as

or accorded to the force from the masclut chloring liberates

gold. It directors its power from the masclut chloring liberates

Are you smiller with electro analysis?

I am , I used to make an arrange of 10 Copperdepositions by Electrichus, dall, wit lift Chief Chemist for
Marmond automobil, people, - both in brouge and breas
the Marmond Automobil people, - both in brouge and breas
these in such aluminum lopper alloys as Kynute.

Can you make the regular quantative analysis of the common metals

With acourage? I refer you to Dr. Well M. Grougenor!

98 Chemists Building, 50 East 41 st Stryt. New york, my growing to English from my growing to they greated in that I am betterware glealifies to would be they from other references and from my amount there would be provided from other references and from my amount to questions.

(Mr. A. Back, Whis Chemist Premier Luterofile & Indianapolish (Mr. A. Back, Was Margaret & Elmon and John Marmon, A. Indianapolish of Mary Super Research & Experiment, North Marmon, Q. Indianapolish of Marmon, and Mary Super Research & Experiment, North Marmon, Q. Indianapolish of Marmon, Q. Indianapolish of Mary Super Research & Experiment, North Marmon, Q. Indianapolish of

If so, where did you practice these determinations and how

long and what were the principal metals? Alines Steel Co., Sary, Indiana ( Fine Co., Faus Ash word (Cot), Mines Steel Co., Sary, Indiana Therwing-Williams Co., Chicago, Al (20, Cu, Te, No, AL) Nordyk . Marmon Co., Indianapolis Ind. (C. F. 18, 5) 10. 50, 10. A., Cu., Olor Chemical Morks, Burkely Ito. M. J. C. Co., Ba, Ft., S.) Alos Wood Chemical Words Berkley Hts., N.J. of Co., Ba, F., S., of the St. W. M. Brossenor, New York City (B. 12, F. 17, O., Ands, Gloes, See my letter answering F 1857 Offen and Mr. J. Eugra.

Can you make a dry assay for gold and silver?

I have done no array work whatever But I have read Scott ( Jech. Methods of Chemical Analysis) and believe I could do it after pero tising one

35.

How, and what apparatus is used for transferring acids to the

Compressed air eggs "That lift the acid in "Churk" through pipes are the usual pieces of apparatus luployed.

Pauber's balto (Vordeim Sephat) Separam (Calcium Support) Sauber's balto (Vordeim Sephat) Separam (Calcium Support) Lloum Carbornets, Sludges "of Loublet Fain Born position (Contain Volumes, iron, Selector alkalics, etc.)

What is Sodium Sulphite used for generally?

Bleaching or as a reducing agent in

Name some of the most corrosive liquids used in chemical

There haid and melphinia laid (Especially the flation and head of the alkali blocking the series and all the little alkali blocking topics of the base of the base alkali, Bengal Chloride and France and Muriatio Acid, Kime (Ca O), Chrome liquors of all Kinds works when they strike flesh?

How would you filter 20% cauntia alkali from suspended matter? It is strength of Cauntia would clew up filter press badly ve have note, had thus particular particular to boliz, but think it should try a taux or test e fungious with a fall of testing better upon which I would pile people or yelars to considerable depth.

40.

Is a solution of chloride of amonia, acid, neutral or alkaline

to litmus paper?

Routral.

What is a basic salt? How do you prevent their formation

By basic hall may be understood one work an ackaling refection or one brutaining an extra O or OH. To far as I know these salls are not formed in hot, axid

Suppose you had 10,000 gallons of a saturated solution of sulphate of copper, contaminated with a large amount of sulphate of sods and you wanted to eliminate it economically, how would

We fractional Cryptallization. Concentrate the solution till it was superseturated with respect to the Glauter's salts, but to a point which did not approved The saturation point of the Copper salt. Cool. The Sodium bulphete will drop out.

About how many pounds of water can be evaporated per pound of coal in a good triple effect evaporator? I don't Know.

What is the name of the special chemical used for detecting

Dimethylgly-rime. (Commonet) also Alpha Benzyl diopine

- -

......

In filtering when using a Laboratory vacuum filter, using a paper disc, suppose the paper was somewhat attacked and breaks,

how do you overcome thin? Appell dies of clot and placed in the placed dies of cloth should frish be cut and placed in the bucking them the paper placed on top of that. The backens should be slowly advanced of possible till the hope desired in Obtained; the precipital should also be storaged out and smoothed constantly to prevent claimfling

46.

How would you determine roughly the comparative viscosity of,

It is no personal process on down totherwise present in the first present in the pull of absences and in the motived of determining presented that it with read to determining presented that the work, and peakly Comprasto are there on an instrument of the type of the Mr Michael Systematics, processor trough alast Markod is it measure the flow (in seconds) of the material flow a "Standard" figuration of the material flow a "Standard" figuration.

#### What is a reflex condensor?

Orlifer or reflex condenser is a vertical Condenser, water cools placed about and comments with a bolation being boiled to Rolled by Condensation any of the ligned Mich might otherwise be food and let it drop back lists the flack or containing to their and is applied. It consists on a laboratory freely of a "place" or placed of the flack of the work in a period in a factor water cooled. It holds the votation of the what of bolation 180. Constant.

How can you get large organise, also small organise?

A right County of the work of the sure by hanging Cords or writing to be of the standing to the coof slower, which is allowed to Coof slower, which is allowed to Coof slower,

Tim crystals or "meal" are obtained by sturing aid agitating while the crystal are superated out from the thoron liquor.

\*

Page 15.

49.

What is the principal impurities of Chamber Acid from burning

pyrition?
Arsenia (Ju), Cf

hur Edwar says heris.

an analytical man but

m factoryman He may

have an opening for an

analytical man.

hot a complete fell down.



August 19,1919.

Dr. Riederer called about 11;15 this A.M. Hr. Edison can in to see him and handed him the questionnairs. The Sentleman looked them over and said to see that it would be a weats of time for him to the control of the c

H. A. Altengarten.

Imparted the above to Mr. Edison - ?????? etc.

## [ATTACHMENT/ENCLOSURE]

The went do - must a why Chewit	
New York July 25th 191	9
Salonatory of Thomas a. Edison Ask Jones Change N.J.	h. addressed
Buttenen Replying to your fever of the 212 ine P.W. 120 Chemical + tolest tragmening Philada. In Shad two interviews with the amployment deft of the toleson are about a month ago and that all the dear tion should be on file in that office. I preserve however	homas Q. ired inform.
tion should be on file in that effect. I please where of salary for further consideration.  Should very experience be of pufficient interest for warrant are interview; well be shed to hear from	
further Very truly yours Dr. Herman S. Ried	ner
Home address 226 E. March Chenk St. Lawa N. 4. address 257 W. 95 257 - Rome Rueraid	Teleman hand
Mr. Bournous to me 17643 M. Mesher with the state of the control of	The state of the s

### [ATTACHMENT/ENCLOSURE]

Say I will be back about dug 17 When the haint located a position Laboratory of Thomas a. Edison attention of Mr. W. H. Meadower ofr. Seutlemen : to your letter of the 30th there is undoubtedly a nise as my advertisement distinctly stated operating experience My actual manufacturing or operating experience has been at least ten (10) years but I can not state it closer as chemical engineering often formed a fact of my duties during the time I was discotly engaged in flant oferation or manufacturing The experience in technical development and research was also oftamed partly during direct flant operation. If this statement in any way changes your osinion as to my nampacturing experience smally let me her from you as poon as possible, as I return to my home in Famaqua, Pa. the first fast of next week

Present temporary address while in HewYork 1421 E. 14<sup>th</sup> St Brooklyn N. Y.

August 20,1919

Mr. Geo. H. Brother, 2519 Bell Pl., Cincinnati, Ohio.

Dear Sir:-

Your answer to P-185, Chem. and Met. Engineering has been shown to Mr. Edison on his return from a camping trip.

Mr. Edison says that the position he has in mind is of such a character that he does not think your experience would qualify you for the position in question.

Yours very truly,

Edison Taboratory.

arlington M. J. author of the attached ad : The writer feels that he W particularly scrited to your requirements, having had experience in operating and maintenance of works. The writer is thirty years of age; is 6 ft - 1 in in height; weighs 225 pounds; is in good health and has no physical defects. The writer graduated from highsehool in 1907; from College with degree of AB 1910; from the Chemical Engineering Course of The mastachusetts Institute of Dechnology in the year 1915. After graduating from Rollege two years were spent in teaching mathematics and Chemistry in High School. This accounts for the elapse of thing between graduation from Callege and Jechnology. The writer spent the years at Technology

His experience covers the study of the manufacture of pulp both Sodar Sulphite) and paper which included the Mulytical work necessary to test materials used; Several months were spent doing analytical work in inorganic Chemistry after which the writer separa transferred to the study of the manufacture of valicylic acid and Salicylates. The writer feels that the last two years have been excellent in works Operations apperience. The work his been in the operating and Maintenence of as Supervisor of the nitration of paper, the purification and dehydration of sylveythin, Compounting of pyroxylin with other Ingredients, The recovery and reltification of denatured and Wood alcohol, the refining and recovery of natural and Synthetic Camphor.

The writer appreciates the full meaning of maximum production with the lowest operative labor and maintenence costsand the strictes & accounting of all materials used. The writer is able to organize or systematize work to the best advantage of each separate or dependant operations. having had au pervision of work requiring Considerable planning. He also can handle men, both technical and practical. Recent forces have numbered as high as 300, of whom the supervisors and some formen were college men-Chemistsand I you appreciate that a personal interview is necessary; and would therefore request that you arrange this to suit your convenience. I suit # 2 Prospect Place arlington, new gerey.

### BUREAU OF EMPLOYMENT OF THE CHEMISTS' CLUB, INC. 50 EAST A1ST STREET

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H. J. LOREN SPORES,

MR. J. LOREN SPORES,

MR. FRANK N. SHALLEY,

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LOYER LAMENCE STR., DEVYER, GOLD,

MR. W. HOYER,

132 WAGDROOMS AVE., GOEAN PARK, GAL.

132 WAGDROOMS AVE., GOEAN PARK, GAL.

NEW YORK OITY MISS ANTOINETTE P. CRAMER TELEPHONE MURRAY HILL 1917

IN REPLY REFER TO No. 4282

ugust 22, 1919. NEW YORK Hor have and heart

Mr. Thomas A. Edison Orange, New Jersey

My dear Sir:

We are enclosing information in regard to the experience and training of the candidates we have referred to you in connection with the call registered at this office for action:

Action taken :-

#4730, Heary B. Rodman - Esperience nol sufficient. #5305, Edgar M. Dunn - No Record.

\*DOUD. EAGUR M. DUNN- TO ACCUME!
#265 . Harold A. Wintjen-Same as Rodman
#2015, John A. Kenney- "No.2" am holding with ofhers
#2216, H. J. Stock — ""
#2216, John S. Baker. "No.4" "

We believe that all of these men have communicated with you and we trust that this information will be of assistance to you in considering their applications. We would appreciate an acknowledgment of the communication when you have made a decision in the matter so that we may keep our records up-to-date and act with assurance in your behalf.

I am;

Valuri Assistant Secretary to Herbert R. Moody, Chairman.

MGR/BLW

Day want a factory manager who has long Expent is wefor, 1919. morganic Chemicals Mallison, Wis Close Competition Willistymulton X. P185 Chamia in Max. En My major training histbeen in it or gaine and an alytical shimsty and I am at present employed by the government as an ainstant research churist I have had two years experience handling Jah university of Wiscom Showed you be interested Smill be glad to furnish further importantion and references.

Mr. Medracropt ag.

Mr. Medracropt ag.

Mr. Joseph ag.

Jan ettl wythehter on a Martin

worning deily and very auxirue to charge

To day hover.

Mad Joseph advice we to see Mr. Elsen

parsonally is reference to some position he

was create? Parlays be world, since of ann

whiching least have patrick and willing to

applifts any near detice. Joseph ag.

bond as a verwity.

Practing flow have had a plan and search spell should be allowed us to be.

Michael Standard forms

All Michael Standard sources support s

you have a considerable amount Us iddletown of. of gall to ask me to send your 12. aug. 26,19. in view of your cutter failure to mast any of the conditions of the bedverhousent however I do not want to cause you any worry when there is so mula t around Vencione phech for 1/2 refund wefset citis 9% to arange Theo'the item is small, it upresent a deficit in my Economic calculations which are very close and I well me way to caver it is other words I mud it. Respectfully -M. C. Dearing

Percy H Thomas 130/E15thesh. Wolfs was loaned to me by the Wyork Kew York. Notes and decruing the west for exerciments on Cle of 26 continuous ornarily alles things He has a mounted known a fractice to resourceful and mounted knownal security for the security of th Teing So Close to you for weary two years. I feel that I come ask you a food the Same and wrules a tacker Mr. Percy H Thomas- Elect. Evegineer for The Chile Exploration Co. 120 Bdury Touts to add a Mechanical Engineer to his teff. - One that hos Pour house Exporience as well as general Experience I am undoubtely fitted for the position and how made application as there are several other applicants and the affordment will mean Fortoon per year - I am going to ask if you will kindly write Unthomas a little note - saying authing you can to help my cause. This will be greatly approceeding

Poor Krierin is still in hors, luck - They have brought him home and he is still in bed but feeling more cheerful than at Cashanelle -funderstand he in abec to get up for some of his meals but is in pretty bas shope I hope you had a very pleasant Summer and are enj usues good Reath. I want to get out to see you for hear hear oray broay. H.G. Woefl.

August 27,1919.

Er. Percy H. Thomas, Electrical Engineer, The Objic Exploration Co., 120 Broadway, Bow York, H.Y.

Dear Mr. Thomas:

Er. Kanry G. Wolfe has written me stating that you were planning to add a Hechanical Engineer to your stoff, and that he would like to be considers: for the position.

Eff. Colfo was loaned to me by the How York-Edison Company during the wer for experimental work on submarines and many other things, and I have had quite some close association with him during the pest two years.

He has had power house experience, is resourceful and invented several parts of my apparatus. He is also a good draughturan one a vor. pleasant man and easy to get along with.

This may be of interest to you in filling the position.

Yours very truly,

1.0



WM. GROSVENOR, PH. D.
CONSULTING CHEMIST AND FACTORY ENGINEER
CHEMISTS BULDING, 50 EAST 41ST STREET
NEW YORK.

CABLE, CHEMARCH HEW TORK M. U. CODE

August 27th, 1919.

Wo and

Mr. Thomas A. Edison, The Edison Laboratories, Orange, New Jersey.

Dear Sir:-

One week ago today, I called on you relative to my application filed in answer to your advertisement F-185 in Chemical & Metallurgical Engineering, At that time, you will doubtless recall that in going over my answers to an examining questionnaire which you submitted with a view to determining to what degree I was qualified to fill the position in question, you referred to my answers or the subject of manufacturing iron oxides as "analytical laboratory methods" and not commercial processes.

I made no further comment on the matter atv that time, but since ther I have beer going over the field of paints, pigments and iron oxides in particular, have consulted various works on the subject-which concerns a relatively unimportant field of chemical technology and which consequently is not very thoroughly treated of in the literature. I have also had the opportunity of talking with a former assistant superintendent in the plant of Binney and Smith. As a result, I can now inform you that the methods described by me (i.e.first precipitating the iron out of solution with alkalies) are not only chemically sound but are commercially employed to secure some very high grade iron exide pigments. I am informed that the following methods are daily employed in some of the largest plants of this country:-

Iron filings + Sulphuric Acid + Ohlorine or Nitric Acid.
 The resulting ferric sulphate is then precipitated with

(a) Milk of lime if a lighter red (due to precipitated

### (2)

gypsum) is desired, or

- (b) Sodium Hydroxide for a very fine, highly aprendable, dark red-browned product.
- Iron filings (or scrap iron) Sulphuric Acid Soda Ash, subsequently boiled with Peroxide of Hydrogent Mygrack arithm or treated with Chlorine gas.
- Same as (1) but beginning with Copperas in solution and omitting the sulphuric acid.
- 4. Copperas + Soda Ash + H2O2 or Cl

Of course, the precipitation as Hydroxide or hydrated oxide is followed in each case by ignition to oxide.

I have taked seven Inctors of Philosophy in Chemistry "That metal has the lowest atomic weight? The highest? That metal is the heariest (Sp.Gr.)?"

Out of the seven not one was able to answer all the questions correctly, three answered the first, two answered the second and four answered the last, correctly.

You were mistaken in believing Thorium to have the highest stomic weight. Uranium has. You were also mistaken about Platinum being the heaviest. Osmium is.

Permit me, at this time, to call your attention to the fact that I have not been for some two years simply an enclytical chemist and that I am not at this time seeking a position as an analytical chemist. You asked in your udvertisement for a practical manufacturing chemist—and you did not specify "one familiar with the commercial manufacture of iron oxide".

(3)

I am a practical manufacturing chemist. As I told you in my first letter of application, I designed a plant for the manufacture of Sedium Bichromate crystals and have manufactured Sodium Bichromate of 97 to 99 per cent. purity, not at the rate of a hundrel grams in a beaker now and then, but at the rate of ten tone a day, currying the process through unloading, sumpling and analyzing the chromite, soda ash and lime, through roasting in reverberatories, leaching out the Sodium Chromate, acidifying, concentrating, throwing out the Clauber's Saltr, crystallizing and filtering or contribugal machines—not to speak of packing in berrels and loading in a freight car. I have some from Chicago to liltwakee in a freight car with a stove to keep Chrome liquor from freezing in the dead of winter.

Then, on the other hand as I have pretty thoroughly explained,
I have analyzed about everything in the world from Soil to P-phenylenediamine.

I am unable to see how it is fair to deduct much from a grade on examination which was I suppose, given to determine whether I was a practical marafacturing chamist, -on account of my unfamiliarity with the details of manufacturing a product which has dedicated to it in the 639 pages of mogres & mubert, just 12 lines. I feel sure that the technical details of the matter are not so deep and intracate that one with plant experience in other and more complicated fields could not master them in a few hours of diligent application.

I feel as sure as I have ever been of anything that I could take hold of that plant of yours and make it run to your entire satisfaction. Do I get a chance to prove it?

WM M. GROSVENOR, Pa.D.

(4)

Thanking you once more for the time you devoted to me at our interview last week and for the time I have taken with this long letter, I ask to be considered

Very respectfully, yours,

504 W. 112# 5t.

August 28, 1919.

Mr. S. T. Helseth, 2 Prospect Place, Arlington, N. J.

Dear Sir:

Your letter of angust 21, answering P-185 Chemical and Metallurgical Eng. has been received and submitted to Mr. Elison, who wishes me to say that you can come over at any time and he will be giad to see you in reference to the advertisement.

If you contemplate coming over this week I would suggest Saturday morning between 9 and 12. Otherwise it may be well to leave it until after Labor Day.

Yours very truly,

Ediphoned:26

Assistant to Mr. Blison

Says it would be impossible for any man to ansvoers there. 49 questions - He would bet. 10 to 1 methis, he says, especially a manufacturing man. I would not attempt to answer them without looking them up at home with his books. Jold him was sorry, but the man who could fell them out would get the job.

Called hive

August 28,1919.

Mr. G. G. Town, N. Hamilton Street, Eadison, Wis.

Dear Sir:-

and submitted to Mr. Mison. He wishes me to say that he wanted is 7 store. He wishes me to say that he wanted is 7 storey limages who her had long experience in manufacturing inorganic chanting in close competition, and that evidently you experience would not be sufficient to fill the position he has in mind.

Yours very truly,

Assistant to Mr. Edison.

August 29,1919.

Hr. Marion B. Riley. Acquistent bearntary to Hr. Herbert R. Koody, Chr., Bureau of amployment of the Chemists' Club, 52 Eust 41st Street, Faw York, N.Y.

My dear Sir:

Your letter of August 226, file 4222, has been reserved, together with the enclosure, and

shown to Mr. Addoon.

He wishes me to thank you for the interest
you have taken, and also to advise you that the position
he had open has been filled during the past week.

I was, therefore, returning your read, reforence containing qualifications, etc. of the applicants referred here, as requested.

Yours very truly,

Assistant to Mr. Edison.

this man would be a drag one is he is unworthy He might make out as a forman of one My chao Estalementalype atter of the depts somewhere -He certainly would spealing byone gold graces be an improvement love if the is any gening gist fraited my labors and are Cooking arment on some few we have- altho not Capable of managing I trust my taking This aportunity a writing you and to among a division as a whole -Trusting Imag have from for W. F. Rehr What do you think ? Could be make out in a subordinale position? 58 Willesant ay

[6.49.2]

Membrank

The answer you have made about that your experience
of the advertisement x you are document what I need to a regular season my my a chemist what what I need to a regular season there are areas I have a questions x This I know because I have one already at works one answer already at works one answer all continued all cut 2 x

Training - Dive you of Chemistry at Cooper Unity Dustitute. Extension reading know Climistry developed because respondible positions held chemist be large Phar Macentical louse where I tist ed and standardized Pharma centicals and M. S. B. chemisch. One up as factores control chemist on Textul all, chrone liquers and Point driess. Two years as research and

manufacturing chemist which included the I manufacture of Kmroz by process developed writer. It the research work was along Opganic lines, & exceted and was in change of this plant until resultly. riences you will pentilly note that I care processfully meet your requirements and therefort, ask for an introise Respectfully Harry Track 2246 Washington Ove.

University of Pittsburgh

School of Chemistry 924 Cliff Street, A Ithaca, N.Y. Sept. 2, 1919. //

"C.G."
Care of the Journal of Industrial and Engineering Chemistry, Easton, Penn.

to fee the site Dear Sir;
Your advertisement, September number V.I.& E.Chemistry.

Your advertisement, September number V.I.& R.Ohemstry.

As I am contributing the opening of a consulting office by w.W.

specializing in the control and development of chemical processes, I

man interested in your advertisement for a plant supertendant. Your way

at the other party part I have been in charge of analytical cognistry

at the One that you furthering the form the two previous years, I was in

charge of physical and metallurgical chemistry at Cooper Union, Cornwood,

New York City.

I's tudied chemistry for three years at Hamilton College and I have been at Cornell University specializing in chemistry for the two years previous to my going to Cooper. I taught chemistry also for eight years. My work in Cornell University was Inorganic, also for eight years. Organic, and Analytical.

From the first I have been interested in industrial chemistry; I have done considerable consulting work on problems that were not properly working. As I have the ability to handle men quietly and can make things go, I shall be pleased to take up matters with you in

detail. very truly yours, L.E.Jenks.

924 Cliff Street, Ithaca, M.Y. Sept.9, 1919.

Laboratory of Thomas A.Edison, Orange, N.J.

Attention: Wm.H.Meadowcroft.

Hy letter of Sept.2 in reply to advertisement C.G., Journal of Gentlemen: Industrial and Engineering Chemistry. Your letter of Sept.6.

A more detailed account of my experience.

Analytical chemistry;

Corneli University, Quantitative analysis.

Advanced quantitative analysis.

Research; The preparation and use of an organic chemical in steel analysis. Prof. Lundell.

Fire Assay. Assistant instructor in quantitative analysis in charge of the advanced laboratory and the recitation work in the

elementary course.

Gas analysis. Prof.Anderson. Optical chemical methods.

Microchemical Methods. Prof. Chamot.

Cooper Union, Lectures: Heat Treatment of Steel. The analysis of Fuels.

The constitution and analysis of calcareous cements. Lectures and laboratory;

Fire Assay. Pyrometry . Metallography. Engineering Geology and Minerology.

University of Pittsburgh,

Lectures and laboratory; Qualitative analysis. Elementary quantitative analysis. Advanced Quantitative analysis. Research in analytical chemistry.

Lectures; Calorimetry and Gas analysis.

-2-

Desearch investigations, commercial.

Ogdensburg, N.Y. Peat.

Analysis of a non-ferrous alloy in a court case.

Ithaca, N.Y.
Analysis of wines for alcohol content.

New York City.
Water proofing mixture for Portland Cement.
Deflagrating mixture.
Lubricants.

Pittsburgh, Pa.

The means of the wrecking of a dwelling by an unknown explosive.

Proceedure, I was not familiar with all methods of analytical brodes of the best of analytical chemists, brodes y lunded now to the best of analytical chemists, brodes y lunded now of Standards Washington, D.C. of the process of th

Administrative and executive training.

By greatest value to you rests on twenty years training in soir reliance. I left school when sixteen to teach in country schools, prepared myself for Hamilton College, waited until a younger brother had finished, entered college with four fee David process as capital, paid my own onlines expense agent the long those of another younger brother. During the myself on the farm at summer vacations without material price of the four sides of the farm at those. I won the Chemister (B.S.) is given at Hamilton only for for the four sidence in science. Also at Cooper Union where a special od on work for which I had had no training. Two of the course of the country in the c

on the farm the direction was left to me. By painting an anomalinate farmer, until his business was swept away to me. By painting the direction of Govern was savept away to me the painting and the same that the direction of Govern to regarded and equipped a new laboratory for physical and the same that the sa

I never have had the attitude that I knew all there was about a subject. If, after an investigation, I formed an opinion; I am willing to fight I shall be pleased to come to see Mr.Edison if business and see its lew York. I will come to Orange from Ithaca if my training and qualifications are such that Mr.Edison can see where I could be of value.

Very respectfully submitted,

I.E. Jenks. L. E. Jan/cs.

Jun. Jenkes called here
Velg and saw har, Edison,
but he frankly admitted he
did not book the fractions
training but remited become the
is a Cotlege Befessor about 45 page

Submarine Base, Key West, Florida. September 3, 1919. Mr. W. H. Meadowcroft, Thos. A. Edison Laboratory,

West Orange, New Jersey. Dear Mr. Meadowcroft:-

Once again I am writing to request a favor of you and if you will oblige me it will be greatly appreciated.

In a short time I expect to gain my discharge from the Navy and wish to learn if Mr. Edison can offer me employment on his staff.

Experimental work is very interesting to me and, of course, the idea of working for Mr. Edison has an appeal. He has no doubt, seen ides of working for ar. scison ass an appeal. He has no could, see enough of my work to ellow him to decide at once whether or not my services would be of any value to him, I therefore presume that references are unnecessary, However, if references are required, I can obtain them from the officers under whom I have served.

Will you kindly ask him about this at the first favorable opportunity and if the answer is encouraging let me know in what capacity I could expect to be employed?

Thanking you again for your kind attentions of the past and with kind regards, I remain

Yours very truly

Paul D. Payne

Box 90, c/o Rare Metals Co., Perth Amboy, N. J., Scotember 3, 1919.

Mr. Thomas A. Edison,

Orange, N. J.

Day Ywas let hum Know shoully as I have

Sir: two alles men to see Dear Sir: was not along lines in which you are at present interested.

I will say frankly that I would consider it a privilege to work for you as an experimental chemist. Accordingly, I would accept a salary even somewhat smaller than my present one, which is \$2,500.00 a year. I am married and have one child.

This refers to your communication of Sept. 2.

Yours very truly,

GW/WM

ges. Wein trans

Mi deser want to put of the pool of this meet make the precion of the precion of

Sant. 4 1919

Mr. M. C. Dearing, P. O. Box 322, Middlotown, Conn.

Dear Sir:

Your letter of August 26th has been roceived. Edison expressed considerable surprise of the Zeison expressed considerable surprise of the condition of the send you \$12 in view of your failure to mest any of the conditions of his advertisement. He state; however, that he did not want to cause you any worry, when there is so much of it bround, you any worry, when there is so much of it bround if herewith anclosed.

Yours very truly,

Assistant to Mr. Edison.

Enclosure.

Mr. A. J. Resler, 2684 Hudson Boulevard, Jersey City, H.J.

Dear Mr. Resler:

Your note of August 24th come while I was away on vacation, and having just returned I am taking the opportunity of writing you a reply,

You wak if I would advise for to see if he may areate. To be exceedingly frame to seme position he may areate. To be exceedingly frame with you, I would not advise you to see him on that subject. Let me excels may.

The only men whom he personally employs are the Chemista and special experts whom he mants to use in consection with his is boretory experiments, and his fault is quite filled at the present time & All other manual control of the whole plant are engaged by the Personnel Service of which Hr. M. M. Jones is the Head.

I am sorry that I cannot offer you more encoura coment, but it is much better to tell you the absolute truth.

With kind regards, I remain,

Yours sincerely,

Assistant to Er. Edison.

A/7691.

1/ Woodorest au., wy. Sapl 5th 1919 Dear Mr. Edison: I have accepted the affered, we by the Chile Exploration Co, I can searcely express my appreciation of your kindeness in writing the Thomas They work and association with you mode this advancement possible, and your fairness in adding to My solary enables me to ask for a higher one from the Chile Co, thou was otherwise passible. This new feature of mining interests me greatly and rise give me a broader field and exercise my brains as well as my hould, I thouk you wosh heartily Success Gours HG. Evolf!

Sept. 6,1919

Mr. H. E. Kreider, 126 West Erie Street, Paincaville, Chio.

Dear Sir: -.

However, Mr. Eddaon suga that if for any reason you should happen to be in the vicinity of New York, you could come over and see him.

Yours very truly,

· Assistant to Mr. Edison.

mi Trank and & started to work 9/2/19

Sept. 6,1919.

Mr. Harry Track, 2246 Washington Ave., New York, N.Y.

Dear Sir:-

Your letter of Sept. 2d, in reply to advertisement 2.5. Journal of Industrial and Engineering Chemistry has been received and shown to Mr. 2dison, who says that if you will come over to the laboratory he will see you in regard to the matter.

When you call, please ask for Mr.

Yours very truly,

Assistant to Er. Edison.

### TATTACHMENT/ENGLOSUREI

 (Draft)

September 6, 1919.

Mr. Wm. F. Nehr, 58 Mt. Pleasant Avenue, West Orange, N. J.

Dear Mr. Nehr:

Since the receipt of your letter of September lat I have given the matter of your re-employment a good deal of consideration. At the present time there is no opening where you would fit in; in fact, I can offer you no encouragement, for the reason that good-paying positions are not very often vacant, and even when they are, it is usually necessary to fill them with men of special training. As you know, when a position is vacant, whether it be of prime importance or one of the more subordinate positions, fill it with the consideration.

The thought occurs to me that we are only one of many industries in this vicinity whore you might locate medigmential to advantage, and I sincerely trust that you may be able to secure a suitable position in the mear future.

Yours faithfully.

Enqueed, at present upplayed as chief chemist and assistant printendent by a firm manufacturing large line of Leavy chemicals, has reached g-the limix of gromotion attainable by = care to waix for dead men's shoes. Entirely competent to superintend ele manufacture of inorganic clemicals in all E & phairs, including plant construction, specification and wextellation of machinery. development of processes and firmulas, and a tactful, energetic execution and an officient organizes, Not afraid I should be glad to arrange for an marvird Thuly yours, Chas W. Moore

126 West Eric Street, Paincsville, Ohio. September 8, 1919.

Mr. Wm. Hilleadowcroff, The Laboratory of Thomas A. Edison, Orange, N.J.

Dear Sir:-

I am in receipt of your letter of the 6th-inst., and while Mr. Edison does not remember ever

inste, om wille art scison does not resenter ever whating see me, I remember very vividly an interview we had some years since.

If Mr. Relison is willing, and will act the time, for an interview in Orange, I will be pleased to meet him, when we can go into the matter of experience and qualifications.

Trusting that I may hear from you further, I am

Yours very truly,

HE freider

Day that I have just get the many want However Mr. Edward worth a acther Mr. Edward of the we will attack? When we wrote for any only officer of the we wrote for any only Mine shows I say?

Meavowenfs

# Western Electric Company,

GOVERNMENT DEPARTMENT 920 BROADWAY NEW YORK

September 8, 1919.

IN REPLY REFER TO &

THOMAS A. EDISON, INC.,

Lakeside Avenue,

. West Orange, New Jersey.

...

Gentlemen:

A few days ago a person claiming to be lies, whifred 5. Dowling called the writer by telephone and gave some information relating to the provious record of Wilfred 5. Dowling, who has been an employee of this Company since Agril 1916. This person would not otherwise identity breach, therefore, the second of the company since Agril 1916. This person would not otherwise identity breach, thereished by directing an inquiry to you, as she stated that ir. Dowling had had relation with one of your Companies at Grange, Biow Sersey.

If you will be so kind as to indicate whether or not this man has been known to your organization, and if so, the nature of the circumstances under which he was associated with your interests, we shall estem it a very great favor. If you should perfor we would be only too glad to confor with any of your representatives who may have information upon this subject.

Yours very truly,

Assistant Manager, Gowernment Dept.

2

Information in pe . Wilfred S. bowling . Esset Cyer and Serminer September Serm 1 maintment for Larceny and Vaccining The state ors Wilfred S. Nowling Sacob L. Sewman Prassector of the Pleas a Prue Bill Seave Skirnthal P. L. Johnan. Clear - Jan. 16-29-30-31. Lat. 14. March 5. Triel day april 16-18-19- May 2 2 21- 92- 23. Bail in 1000,00 By Lorenzo Rita - berngfield . n.f. May 25th 1917. Is miss in fine 300,00 and both. and on villance flower the section for 3 offers. Surp Element June 28. 1918. Entered Essey Genety Penetroticary. Coldwid . 2 J. September 33.1918. Pardaned by the Board of Pardons. Namitted fine and Evet and Probations.

Sept. 11,1919.

Mr. Chas. U. Moore, 208 Lighthouse Street, Erie, Pa.

Dear Sir:-

Your lather of Sapt. 6th, has been received on shown to its. Mileson, who says that he repreted that you are so far from Orenge, - as he cannot coppley an Enginee's whom he has not seen, and of whome he had not opportunity to ask come protty hard questions as to experience and qualifications.

However, Mr. Edison says that if for any reason you should happen to be in the vicinity of New York, you could come over and see him.

Yours vory truly,

Assistant to Mr. Edison.

A/7759

Sept. 11,1919.

Hr. Paul D. Payne, U.S. Submarine Base, Key West, Fla.

Dear Mr. Payne:

Ed and showed i knowledge and the constant of Spine to say that he will give you to be experimenting with him. Of course, he did not mestion any specific experiment, but undoubtedly he will have different brings to give you from time to have the same that the constant of the course of the course

So, when you are ready to come up and start, come along.

With kind regards, I remain, Yours very truly,

Assistant to Mr. Edison.

A/7770

-hote-In Edison told Coil H. Harris to see hor Kellow today. In Kellow did next know anything about it, and then Harris handed him a note from In Edison authorizing Kellow to pay his fare home. Im & told him he would never make good, etc, here. allingarten.

ya

Sept. 25,1919.

Dr. U. Y. Yen, 2015 19th Street, M.W., Washington, D.C.

Dear Dr. Yen:

for the past five months working on headon manipulations of great industrial importance, but no or freat industrial importance, hard and intelligent worker and is making rapid progress. He tells see you are his Guardian and that you want him to return to College.

If Mr. Yee is hore for the purpose of acquiring a practical knowledge of Chemistry for the benefit of the Chinese people, then I savgest that you called him to stay at my Labor.tory, as he will learn what he cannot learn in a Collect and will be shie to use his knowledge practically and at once in any Chemical Works when he returns to China.

Yours very truly,

Dr. U. y. yen

has Even in my laboration for the boart 5 mbrills workings and every chamical manipulations of great inches at a very hand with first and is making regist the south the tells my your are his great them to realway for coate the phone and the coate the phone and the coate the phone and the acquiring a preactical acquiring a preactical acquiring a preactical.

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people how I engeret you a calloo him to chang at my
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Learn what he crement
learn in a College of 62
able to use his knowledge
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he any Chamaal work
tohan he returns to China
Contract to the total of the to
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and the second s

Mr. Edison, I have been asked by my quardian to go back to school, but I am very much interested in my work here and know that I can learn more here with you than I Could possibly of school. Would you be kind enough to help me out in this matter by writing a personal letter to my quardian, telling him about my work here, etc. ? Dr. U. Y. Yen 2015 19th. St., N.W. Washington, D.

Educational Bureau of Chinese Ministry of Education

2015 NINETEENTH STREET NORTHWEST WASHINGTON, D. C.

September 30, 1919.

Mr. Thomas A. Edison, The Laboratory of Thomas A. Edison, Orange, H. J.

(1969)

My dear Mr. Edison:

In reply to your favor of September 25, I take pleasure in informing you that permission for Mr. C. C. Yee to stay another year at your laboratory has been granted.

I wonder if it is possible for you to give some general idea as to the kind of work which Mr. Yee is now performing at your institution.

Thanking you for all the trouble, I remain

Yours very truly,

Director.

Dr. U. y you

or/s. producing outsels in Collision, also removing Chlorides from Canolic, alkaling a other Things.

October 6, 1919.

Dr. U. Y. Yen, Director, Educational Bureau of Chinese Ministry of Education, 2015 Eineteenth Street, N.W., Washington, D. C.

Dear Doctor You:-

In acknowledging receipt of your favor of September 50, allow us to express my pleasure in learning that parmission is given for Ur. C. C. Yee to stay another year at my Laboratory.

In reply to your question, let me asy that he is experimenting on factory methods of producing articles in colluloid, also removing chlorides from caustic alkali and other things.

Yours very truly.

Glass Kulu

#### ANDREW H. KUHN

ORANGE N. J.

OUTOBER SIXTH NINTEEN.

Mr. Wm. Meadowcraft.

West orange, N.J.

Dear Sir:- You will recall that some time back I wrote to you in

meference to glass work which you were having done on the outside for the Edison Co.. for either the experimental depit., or the plant.

Also suggested that there would be a big saving if you would hat his done on the place, to which you replied that Mr. Edison was engaged on some experiments that would entail a freet amount of glass

Is there any change in the status of the situation at present? In the event of your requiring any work of this nature, for either Mr. Bison's exacting requirements or the plant can assure you that the work will be satisfactory to the smallest detail.

Thanking you for your past courtesies,

work, in the event of their proving successful.

I remain, Cont. Kahn

luchundocuft.
I have if no spead glas with midd at
punch time.
I will hack the name in much for the

g will truly and some

9986

lames, N.Williamson, & Sons, Co.



BURLINGTON N.C.

Oct. 10, 1919.

H.C.POLLARD.Scencrapy

Mr. Thomas A. Edison, Orange, N. J.

My dear Mr. Edison:

while in New York a few days ago, I had an occasion of meeting one, Mr. Robert A. Bachmann, who stated that he had been in your employment for something like ten to four eem in your Engineering Department was working with him on a gas proposition, and I would kindly ask that you please tell me in confidence just what you think of Mr. Bachmann. Do you repard him as man that is upright and honest and who's word and advise after a fagineer can be counted upon under any of the confidence will be held in strict confidence and much appreciated.

Your truly of Avaiting took and with best wiehes, I beg to your truly your Allements of the View of the Circumstance of the Ci

UNIVERSITY OF BUFFALO BUFFALO, N. Y. Oct 14,1919 a. Edwan Lobor N.J. 1 Mr. Meado right in Buffalo where he are Adam In. i with the Edison the latter fact of September has led to much thought on my hant get 10 hand unformation problems that have come to his attention Where there should be study go to the cheapening of present industrial processes. There is offortunity for me to shape. ell be formble respectfilly submit -ty Westing. accounty of Buffle.

UTTLEFIELD-SHEPPERD

• COMPANY ING.•

GENERAL OFFICES 1182 BROADWAY NEW YORK

October 15th, 1919.

Thomas A. Edison, Orange, N. J.

Gentlemen:-

Mr. John James Riley has applied to us for position as salesman, claiming to have been employed by your concern for over four years.

Will you kindly give us some idea of Mr. Riley's ability as a salesman and an executive, also anything which you may know concerning his character, habits, etc.

A prompt reply will be greatly appreciated.

Yours very truly,

SHEPER COMPANY.

Yours very truly

вов/ив

8030

October 17, 1919.

Littlefield Shepperd Company, 1182 Broadway, New York City.

Centlemen:-

Your letter of inquiry in regard to Mr. John J. Riley has been received, and I reply, as I know the facts in the case.

nur employ for over four years. News in thange of a special Department which Wr. Nideon organized for a special Department which Wr. Nideon organized for a special purpose - numely, a Demonstrating Department, 'The function of this Department was to give demonstrations of the New Disc Phonograph all ower the country, and Wr. Hildy had under his charge about 100 mon, whom he Rept moving in different localities from Gonat to Gonst.

Mr. Rilay's management of the Department was in every may satingatory and new tith tradison's entire approval. In connection with the deconstrations, Mr. Riley's men also began to make sales after the first two years of the Department's work, and Mr. Riley pushed this part of the work very successfully.

Riley was with us, his character was of the best, and so far as I know he has no questionable habits.

Yours very truly,

55 Highland ave. Passair, 9. J. The Edison Laboratories East Orange, N.J. Gentlemen: I wish to apply for a position of go Laboratory as my ambition is along experimental work. I have, since a boy, had a desire for inventions and have in possess few shetcher of some fractical ideas which, if worked out, would prove of quat value. I have just received my discharge from the army where I was a commissioned aviator. My age is 24 years old and a Pratt Institute graduate in applied bleatricity, class of 1917. From July - 17 to not 15-17 I was with the Underwriters Laboratories, n. y. City, in charge of the laboratory. Hoping to hear from your favorably, I am your truly, Frank J Palmison

WEAR THE WHITE AND BLUE



UNIVERSITY OF BUFFALO
BUFFALO COLLEGE OF PHARMACY
BUFFALO, N. Y.

WILLIS G. GREGORY, M. D., PH, G., DEAN & THEAN ELI H. LONG, M. D., SECHETANY ALBERT P. BY, M. S., PH. D., SUPERINTENDENT

Chemistry Department Oct. 22, 1919.

Laboratory of Thomas A. Edison, Orange, N.J.

Attention of Mr. Meadowcroft.

Your letter of Oct. 18.

By reason of appealing to you as a possible source of problems that were of intorest today, was because of rather a severe arrangement of college chemistry teachers to me by Mr. Edison and a foeling on my part, that no far as I was concorned, its Edison that the mell on the head. I was not not the mell on the head. I have the seeenrch of the seniors of the chemistry course, Am I am primerly interested in training men. I am anxious to get them interested along lines that will be the most valuable to the welfare of chemistry. Assi am a stranger to the industries of this vicinity, I am strying from all possible sources to find problems that the Industries work upon.

This letter is not an append from your decision: but rether to make sure that I was not misunderstood. I am not a party to any attempt to work in the interest of any firm at the expense to another, I is be business world wants men to know practical closister, I shall be given a world wants men to know practical closister, I shall be for the property of the I had so when the shall be a superior out men that can I had so we will be the shall be for the property of the same shall be shall be for the same shall be same to the same shall be same shall b

Very respectfully submitted,

.E.Jenks

Professor in charge of inorganic chemistry.

Elisa Pet., Orange, H.). Dear Mr. Of ther of the 22 2nd inst and contents engine noted. interded to see Mr Crists last week, but I lad some very very important business on wand very important accounted on matter and I have you they off" this matter day to day to day to day to they will be a for a south the account of the latter part of this were to come again agent the latter part of this were wik. aways efection the street is and it Mr. Edison told me that my work would consist of experimenting or marginic or a garit chemistry chief the farmer as I had been unya on research previously and being used to the customery freedom a research detrich in choosing his own methods of solving a problem I raturally thought thet I would

I hope you will real redicament I am in so therefore after an invarious positions which we want think make interesting to me financially to enter the Slank you. employ of Mr. Edison. Iwas thent very much disappointed when I was Respectfully Harry Track. astigned to solve a problem irreload to my che is experience for its I leave show this letter to that it did not is lung metille Mr. Meadoweroft. Twilf be eagerly awaiting and instructed to felo sa methody fine attacked this bolder dong ded his Mr Edison for working along this time. I therefor deem it wants to both Mr. Edison and mipelf I's Iremain in is employ under these conditions white my knowledge and effecience Fare not put to advantage. I shall intended to offert to Me Edison about this but I find it very hard to discuss onything intelligently with him.

Telegrain

Harry Trask

2246 Alexhington done · Therefore

Me you sick or home you left. Please advice us.

Edismi Laboratory

Canton, Ohio. Oct. 28, 1919. Thomas a Edison, Inc. Orange, My. attention: Wha Thomas a. Edison. Dear sir: Who is going to take up T. a. Educace experimental and inventive work when he is gone ? I have a desire to train in while is is possible and to assist in the Surtherance Dyshir work, therefore ask you to consider my diffication for fundament Implyment with the Thomas a. Edison Inc. serving in the capacity Jan experimental engineer to work upon Storage Batteris and Phonograph improvements and feoduction. May I hope to enter into a contract with the Thomas a. Edison Inc. dealing devect with you or your officials. Place Seply to the unter by registered mail % General Delivery Canton Ohio or by wine to 503 Fullow Rd. N. W. Canton Olis. Respectfully yours. Paul J. Kay.

#### [ATTACHMENT/ENCLOSURE]

Charles: every day How simply great problems are solved if we only possess our souls, in praticuce. Here is one of the greatest little apportunities iver offered to we, and the ighter admile it! If you will Knill return the letter to me I will ausury it with a short form letter of 3 or 4 lines; which is calculated to reduce the gentleman's four several degrees - Willeadownist, Ool 31/19

October 29, 1919

Mr. Harry Trask, 2246 Washington Ave., New York City.

Dear Sir:-

Your letter of October 27 has been received and shown to ur. Edison.  $\space{-0.05in}$ 

He wishes me to say that he gave you the problem in order to test your imagination and originality, but the test was not satisfactory. He says that he has not another man in your place, and therefore you need not return.

If there is any compensation due you for the time you were here, will you please let me know what it is, and I will have the Paymaster send it to you.

Yours very truly,

Ediphone

Asst. to Mr. Edison.

### [ATTACHMENT/ENCLOSURE]

MeadocraftDay to him that I gave him
The problem I did to test
his imagination of originality
as the test was not satisfictary
I have put another mean
we has place the need not
within

October 29,1919.

Electrical World, 10th Ave. and 36th Street, New York, N.Y.

Gentlemen:

I enclose an advortisement which please insert in your publication, in two successive numbers, when present strike conditions allow their issue. Please make bill to Thomas A. Edison and send to me.

Will you kindly have any replies mailed to me, addressed W. H. Meadowcroft, Edison Laboratory, Orange, N.J., and charge the postage to us.

Yours very truly,

Assistant to Mr. Edison.

Enclosure.

#### [ATTACHMENT/ENCLOSURE]

Section word -Lugineering heres Record chin, machinist --10% auc + 36% dt. n.y Machinery 140 Lafayette St., 11.4. V Son ago - 239 West 39 4 87 Might Industrial management . 6 East 3 9 % Fr & Soundifie ofmerion - 233 Brong , May & Lower Stant Engineering , 150 namon A. Electrical Review, 13 Park Roiv, n.y. Secretary , alm . Secrets of meets . Engineers ) Room god hy. Secretion Building V

#### ATTACHMENT/ENCLOSURE]

Wanted at Mechanical Enginer who Capable of disagning one who aheady has a reproson of Dicher when and lange though attractive of allowing well 62 part of the prince of allowing well 62 part of the princes, Delon well 62 part of the p

2246 H solvington ave, 44°C, Och 30, 1919. t on Mr. Merdowersel, Letter of the 29th at land. Beelting to Mr. Belisons Pouglo logical effering I would like to ask the following in us to fell out fulge me inagination and one malely from all the lefters cato that the ve tried or from some rapid conviction for two efferiments which did not coincide with his thoughts? Personally I think the latter Dalso wish to add that production originality is not possibly when the Here wenter is not acquainted with the surject be is effectionating on I be liscussed this watter in my other land and I further of wish to all that: was offer a strugged, he M. Elison would only faming the book in which I have written of my efficient he will dissolve some of this konvictions. Ilefta book carled

"Physics Chemical Hondbook" is subjected by a centain nubber to the number which I do not recolled and for which I am enclosing to all the property of Niel you placed which some to set the court of the court

October 31, 1919.

"r. Harry Trask, 2246 Tashington Avo., New York City.

Dear Fr. Trask:

I have received your letter of October 30, and regret I am unable to answer the questions you ask. Mr. Edison did not give his full reason to me. but wrote a memorandum which was substantially the gist of the lotter I wrote you.

Your book is going forward to you under separate cover by mail, and I trust you will receive it in good order.

In my recent letter to you I asked you to let me know if there was any componsation due you for the time you had been here, but you did not answer.

Yours very truly,

Ediphoned 25.

Asst. to ur. Edison.

He left & darted in beg sid gavage Thor 1-1919

where tall men things left me

We headow craft,

where the superior of the content of the con

CLASS OF SERVICE SYMBOL.

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RECEIVED AT COR. MAIN ST. & ESSEX AVE.,
23 INYGC 22 NORANGE, N. J.
22 INCREME GRANGE ARE

TROY ALA NOV 5 1919

HEAD CHEMIST EDISON LABORATORY ORANGE NJ
CAN YOU GIVE INFORMATION CECIL H HARRIS IS HE WITH YOU
IF NOT GIVE ALL INFORMATION YOU CAN ANSWER MY EXPENSE
FATHER

J E HARRIS

Sent W. W. 196/19 Sent Collect

9.50 am Colle

g & Harris offer to the part of your weeks of retired to the grant of the grant of

Porm 1204

mount at N.O.

ADDRESS REPLY TO DESEARCH DIVISION

## THE NEW JERSEY ZING COMPANY

BALLEY COMPANY THE LAND COMPANY COMPANY A TIME, MATY COMPANY

Bdison Storage Battery Company, orange, Orange, New Jersey.

Gentlemen:- (Atten. Mr. T. A. J

Mr. L. C. Turnock has applied to this Company for employment as research chemical engineer. He states that he was employed by your Company as electrochemical engineer in the fall of 1914 and reported directly to

Any information you can give us as to his personality or ability would be very much appreciated.

and the work of the work very truly yours,

Chief of Research Division

And State J. P. Hubbell, Mr. School De Measure of Market Colors

Think he is the Chemist who worked in Chemina work or my dock at up of Oth ma

November 12,1919.

Mr. Frank G. Breyer, Chief of Research Division, The New Jersey Zinc Co., Palmerton, Carbon Co., Penna.

Dear Sir:-

of Horaber 9th, in whom year wad your latter of Horaber 9th, in whom you make 3 mounty about Er. L. C. Turnook, and requested me to say that Hr. Turnook was with him such a short time that he does not feel that he can make an adequate reply to your inquiry as to his ability.

Yours very truly,

Assistant to Mr. Edison.

Λ/8193.

DR. PAUL WEILLER CHEMICAL ENGINEER

20 Wittlesey Ave. East Orange N.J. Phone 6995 Orange. Chemists

He we crooked mmy openion

He we crooked mmy openion

Late of the dynamic of the dynamic of the dynamic openion of the dynamic of the dynamic of the dynamic openion of the dynamic of the dynamic openion openion of the dynamic openion open

Doar Sir:-

with it. Medicaring to my tologhous conversation following a short hacked of my experience. The short is the following a short hacked of my experience, graduated in Charlottenberg-Berlin as metallurgical engineer in the chemical department and at the same time had a thorough training in electrical engineering and a thorough training in electrical engineering expension work on them analysis of elloys and sillets as

I have done extensive research world on thermo analysis of alloys and silicates.

I am theroughly up to date in pyrometry and radiation theory.

I as thereforly up to date in pyrosery him rediction theory.

During the party years of any practical experiments on them in charge of a metallocate the period of the property of a steal work, I have been designer and construction of iron works, a lead smalter, copper smalter and in that capacity have designed electric power plent, water supply, furnaces and other plents. It for coming to this country in 1918

After coming to this country in 1918 I storted a small chemical business and at the beginning of the war took up the manufacture of Pioric Acid, which gave me the opportunity to meet you.

I have later manufactured successfully aniline and other intermediates, azo dyes, Nigrosine

DR. PAUL WEILLER

page 2.

Sulphur Blue and other dyes. I have always developed my own processes designed, erected and operated my own plants.

designed, erected and operated my own plants. So much for my experience, there to propole with interest of propole with interest of propole with interest of the view of the relative to the problems or at least have been lucky at it to far, as I have been mostly able to master them quickly. At the agms time I am experienced in factory management and know how to handle men.

ractory management and know how to handle ment am fit only for the things mentioned above. If you have a hard mut to cruek, just put me up against it mig give me a chance, no matter if it be also tried, phondical or otherwise. See the second of the control of t

personality like Mr. Edison and hope that this application will find your favor. I beg to remain, Yours very respectfully

I was born in Trieste of italian parentage, am 35 years of age, married and have one child.

4701 Kimbull Avenue,
Fichmond Hill,
Long Taland,
New York.
Hevember Sata, 1919.

great

P-442 Elsetrical World, New York.

mear sir:-

In answer to your advertisement for a designing empineer, I would be pleased if you would permit me to apply for the position which you have open.

design; I have had fourteen years experience at accuting the control of the contr

I have been employed by several large manufactureing concerns and industrial organizations holding executive positions as mechanical engineer, scalining on an order drafts ann.

Upon receipt of correspondence from you it would undougted, emake not give a more detailed eccent of my or temperature in the number particular line perhaps, in which you are marged.

Thanking you, I beg to remain

Very truly your,

George W. Speirs.

Comment of Court of

gma/19/1

Mechanical Engineer

mornio 11/29/19

1

ige? Married?

۶.

Where were you educated?

7

What positions have you had and length of time in each position?

4.

Why did you leave in each case?

Michanical Engineer 7 = Are you a preactical Fracifityman, + coloreded st Agre, Maurica Cheldrew Laor you ever designe 2 (Choic Educated). coholly or in part a number of Special Weachines that whole occessful of 20 name Than I tokat Withere they intended for Qt = Can you do the coorte ack a Tool maker or meachined 5. What is sleet so cohere thedays were you 6 What is maximum tensilo Strangth of highest grade of

distance apart would 10-6 you place the bewings Ruppale you had 10 shafts 4ft long each all in parcellal and morning 12= Duppaso you had 2 the shorts become a smooth plate of glass at the End was a pulley 2 It apart dette shafts requiring 1000 loo but de over theo pulley ran a 1 ( redup- - was be Cond, resting on the gland 150 Rev per min face coas an ordinary brickwould you connect on Top of Chis brick was them to the prime mover 5 atters appearmentaly how which weight no receivery to etat these 11= Witha 4 mah shaft la bricks shipping believe Canter of Gen having a 5 lt pickly 13 On the other hand the 24 malin wede betted of Cond is Counteded to Opended to Convey 100 HP what is The referencem

a main shaffa making Euch brick eccets on the 150 Rev with a 200 belt glass - give the apprecogniste amount of weight many 25 It long-sexing to be pur on the cor to start all the brich, also author shaft 14. What we the netals aduplicate of the wet bhalf but the used generally to pread was pulley blas a face af le undern peop Dece Tool steel 24 welles + the 4. ply - give ackbroxum 15- what we the metals the packer Iransmiles assissing the first Brobett Bartal shaft dipulled transmit I recan best, 100 lents of backer 16- If you have two shaft

17 Ruspease you was 18. Lua very dusty tracesuntering pocier perce how would you by a Gact, Hidalife Veceptho dent cut with longth of Driving quelley a djuran sully Louis 10 ft Lock 19= How do you liven Chilled mon what bect continualles tool gave trauble from 20, How much obrunkage Deppeng- How wto be allowed on Cal a pattern lican ous 21= Have you used sprocket of Chain drives, What describe how we the troubles you have had with them

22, When you are given 24 " Whats the Effec a problem to salve. of a weekene to porform and o koration now done 25 OLVE Officery by hand, How do you modern Corm decive go about it, after Have have gove low the dent proceeding colat s efficee do you do next) q do of Chains & pricket drive 23, What kind of gears give trouble Hookat Kind are generalle ree of trauble

What is effecting of old type of coonin drive as who with best known hubricaling del what is difference between to What is muchung stock what is tool attack What is Russia vion How much allowance much to make wa pettern for abunharge of Cust shout what temporation from do bodies become visibly fred What is test method of shaping stick outsides with particular colors close fet

acuracy is necessary

In turning a chaft do you act the Cultury point above below or at exact Center of contract to be two new there is a contract of the two new tracks of meany kend of preamy kend of contractions to doubt recam plane top the whole when the characteristic to the contraction of Contracting these tooks by Camis Electric Contract, prayers Cando or atherwise ratetato, juagnosso Cando or atherwise

What is occasion that a quitalone quinds faiter when Continuously to lost with numering water than of it

what is alunden abravira

what is Carbonermoun

Water what of Corners particles hald together to form a gruing wheal

If you had a lever 10 ft long with the theorem Ift from the End - to detain Buerage House akitch appromate shape tehoused kee made to wive best abought after lover

If you were to use a large of pur gran I small person - and a stress of 1000 the at gean teek was suguered, blow Long would you make the punion -

9 hermag kone gearing as strong as etrang as etrangent took geominal - why?

19 (How So they two hard chilled iron

What is the despert chill that can be get princheally on best chilling non-

How are Machenthe vion Consling made

what premiar preporting hate malleable

What are the two best known methods

What is Bathit neetal? what neetals seen used in test + what in the promety

Shetch a flexible Compling. The best for heavy maching a also for high neuchinory

If you drop a start ball weighting one its 3 ft above an anvil approximately what well be when well be well be upont.

Does from Castings shrink or warp.

What peculiarly has cold ralled chafting when turned by a tool.

Superpose you had a cohael I ft dia " high of sold, mede out of tool atech of good grade what butte maximum velocity, at the Edge, would you think if would be safe to run it.

How much for good cast vion -

Why dow a hydraulic press produces she such great pressure when the poster pump gives such small pressure what to the plunapal unalored

What is a Chinese Windless Have you ever ricad a Gook cacked 707 mechanical marsments What is an Epicycloidal Gear- Can you mullipley leaverage with it & how How would you drift holes in think. If you were required to form up in a die autides from their steel leke In plate, which would you use the untinned plate at of cents 66 or same plate timed at 13 cents If one or the atter ishy?

What kind of teel were withen shown has The greatest tensile aliength -Where powerful vitrations take place which material would you wo won or steel -Whichmetat has the growatest Expansion which the least-What substance used in many shafes both John can be lurned bored Elé which has the peculiarity of expanding Contracting by heat more than any known substance John Boring Mills Mare What form of governor is best for regulating speed of small wachen skelati vi radight

Eketch 2 or 3 best lypes of

What is best device for occaving a gran to its shaft,

suppose you keed a were compelled to use a very small persion counciled to a shaft which wist be large to sland the strain, how would you mowe it

Why are piston ringe of steam Englis always made of Carotinon

what is high brass & low brass -

How do they rall brass strips so they are calliper theorems Uncheness all over.

How would you take buckles out of sheet steel How do the Mills do it a deliver perfectly of lost sheets

What is the friction bite of a locomative what on the dy ails say weight ab Locomation 100 lons have many tous would it pull before slipping approximately

Ve 200 No. Hhitney Sh, W. ains W. Hartford, Com., V. aled, 1,1919. Box 138 c/o Machinery Gentlemen; Responding to your ad in the present issue of Wachinery for a mechanical engineer, I would be very glad of the offortunity for an exchange of correspondence. I am at present employed as chief engineer in a concern whose business is the designing and building of all sorts of special madeinery. tools, jiga, fixtures, appliances, etc. Previous to this position I had full clarge of the construction of four inch naval gun mounts for the N. S. Lov't. involving the layout of manufacture, design of all tools, ordering of materials etc. In cidentally the order was completed on time. My nech previous position was assistant to the general manager in a large concern engaged in the man-

ufacture of army riflex where I had charge of the design and development of special equipment. Previous to that I was engaged in the design and development of special sewing machines for manufacturing purposes. This covers my experience for the part nine years. I am a technical graduate in mechanical engineering, thirty five years old and married. My only reason for desiring a change is to connect with a larger consern offering a greater offortunity. Trusting I may receive the favor of your consideration, I am, Very truly yours, S. H. avis

Madocraft

Day - has been with me for many

years as the former the constituent of the has performed his distances

Dear Lr. Edison: Ory of mangy

Sth. has been accopted by in- Onostable. It is with a repretral and reminiscent continues that I view was severance of connection with the firm, after my previous long service, and I feel that it would be a fitting exemination of my association with the company if i were accorded some certificate of past service. For that reason I wish to renow my patition for your personal and untring service devoted to the interests of the

neutrons fire in 1914, which pertially destroyed the Flant, you had occession to call for my services and, although I held a reoponable and renmerative position classwhere, I promptly responded to your call. I have never regretted this decision and I venture to say that, in any energency, should you again see fit to require my services I would act in a similar manner.

There are many other significant reminders and occurrences, during my term with the warious Edison Interests, which I feel merit your recognition.

In the light of these facts may I not hope for a favorable reply?

Very respectfully yours,

MArthur Wolf.

FOWARD S. BIXLE

Dear Mr. Meadowcroft:-

Manker

After a continuous service of almost

twenty years in Mr. Edison's interest while connected with his Cement Division, during which time as you know my duties were diversified performing almost every function up to Assistant to Presidency while Mr. Mallory was with us, I resigned last March at Mr. Mambert's request, and since that time have been working on a proposition which I have not yet completed.

Among other things while associated with Mr. Edison, I handled all his Liability matters at New Village and had a reserve fund of almost \$20,000.00 being an accumulation of a number of years saving which I accomplished by careful negotiations with injured employees. Mr. Mallory can verify this. I however, enjoyed this as well as my other duties and will ever cherish the pleasant associations I had with the New Village as well as the Orange office.

I wish to ask a personal favor of you however, and hope you will grant it and that is: get a testimonial for me signed by Mr. Edison. He gave me one some ten years ago, but I would like to have this last one now as my services have been discontinued.

I still have Mr. Edison's interests at heart and hope my twenty years of service have not been for naught, I served the Cement Company faithfully 100% of my time and energy.

Yours very truly your & Divlor

Wolf

December 6,1919.

# TO WHOM IT MAY CONCERN:

Mr. M. Arthur Wolf has been in my employ for meny years as Chief Draughteams in my Construction Department. He has performed his duties satisfactorily to me and is very energetic. He leaves my employ of his own volttion.

1413 Turks Head Building, Providence, R.I. Dec 6th. 1919.

Box K-47, The Iron Age, New York, N.Y. Gentlemen; -

My experience, of fifteen years in engineering and machine designing capacities, has been such that I beleive I am qualified to fill the position mentioned in your advertisement in the current issue of Iron Age.

I have recently been discharged from the service where I had control of extensive ordnance work and am at present engaged on matters of a more or less temporary nature.

If the position in question is still open I should be pleased to send you particulars as to my experience and training, or better yet arrange for an interview.

P/C

Mr. Edison He said he did not care to work

his time in answaring those questions, which may all be found in Kento Handbook -

Meadoweroff

E-102M-6-19		MORANDUM las a. Edison industries	4
Lien	doweroft.	DATE_12/8/1919.	
IR		AVOID VERBAL MESSAGES CONFIRM VERBAL UNDERST	PANDINGS.
	FUNCTION	CONTINUI VERBIE ONDERO	
	Here is the thought f	or Er.Edison's Christmas message. Eake	
n:	v changes you desire and pleas	e return when you can conveniently do so.	
27	nnk you.	John a. Rush	
		() .	
	Mr. Rush:		
	9 Hand	K it would be well to a	ousulf
m	. Charles Edison at	out this. He might will and them this as a matt	6 6
00	y something differe	and than this as a malt	er of
4.	Lieu.		
7		Willeadowerof	

## TO MY LOYAL FELLOW WORKERS - GREETINGS:-

Best wishes for a happy Christmas and a New Year blessed with prosperity. America's problems will be solved by a people proud of our institutions; grateful for the wonderful accomplishments of the past and optimistic of a future, such as will unfold before no other nation. Hard work, (high we (11) love) and an intense faith in our abilities will make that future an assured success.

don't.

Think you had better leave this out -

Mr. Meadowerft. Otherwise ok as tur as I can see except That

It doesn't sound

reuch -like Mr. E.

imball Avenue, chmond Hill, Long Island, New York.

December 8th, 1919.

Box. 138, Care Machiner, New York.

Gentlemen: -

In answer to your advertisement for a designing engineer, I would be pleased if you would permit me to apply for the position which you have open.

I have had fourteen years experience at machine design; automatic machinery; mechanical and electrical engineering; and covering the qualifications as mentioned in your ad, I believe I am capable of complying with your requirements.

Upon receipt of correspondence from you it would undountedly enable me to give a more detailed by my past experiences in the same lime perhaps, in which you are ounged.

Thanking you, I beg to remain

Very truly yours,

GWS/MS/1 62/47

George W. Speirs.

Question name allachet

\$14000 to \$5000 a gen

December 11,1919.

Mr. George W. Speirs, 4701 Kimbell Ave., Richmond Hill, L.I., New York, N.f.

Doar Sir:-

Your answer to advertisement Box 138, "Machinery", has been recoived.

If convenient, Er. Edison would be glad to have you come out here to see him on Tuesday, December 16th, about 9:30 in the morning.

For your information, let me may that there are two ways for nomine to the inheratory. One is my the lack for moment and from diobten, alighting from the trail at lord from inbut in alighting from the trail at lord from the trail to the main street and take a trolley for mest orange, which will bring you to the door.

The other way is to take the train for Howark by the ituden Them Hew Tork. This would bring you out at Pyrk Plant Hew Tork. Then walk down two blocks to the Tenment Building and get a troiley for West Orang, which will bring you to the door.

Please ask in the Gate House for Er. Meadowcroft.

Yours very truly.

Assistant to Mr. Edison.

MECHANICAL ENGINEER

Married? Age?

30

Children? none

Geo. W. Speins

Where were you educated?

From education (Personal Stuar)

Brooking Evening wernical and France Labor.

inthe without love - - - - - - - - - - -

What positions have you had andlength of time in each position?

Lucher ? ر شاره میشود شمیر Mastinen

this southware injure.

Marking Resigner & reserve.

Why did you leave in each case?

Betty opportunities offered, and my field endeavor in each case gave profite of expansion. my possibilities were emitted only as as I careful to prolong them.

Page 2:

What is steel?

Steel is refined sig iron and its quality clanges with the amount of over earlow which it contains

νk

What is maximum tensile strength of highest grade of steel wire. approximately?

150,000 per sq in.

Are you a practical Draughtsman, and where did you learn it?

Jes. Evening belooks but mainly at lone and due to Practical actual Mork.

Page 3:

8.

Have you ever designed wholly or in part, a number of special machines that were successful? If so, mene then and what were they intended for?

We . Various machines. Submitted the factor of the submitted that the submitted that we considered the land strength the submitted that we will not a submitted to the submitted that we will not submitted to the submitte

herry Egrescopi Habilian Gerolla + Hip a J. amy leavelight fore will soughly to mented on Telescopic Josep. They are not mented being divise.

Can you do the work of a tool maker or machinist? If so, where were you taught, end how long did you work at this line?

Specience gained working in various Brooklyn Machine Hops.

regentlater Sinotype Co. C. M. Beis Co. Brookly rang yard.

also operated sersonal experimental slipe

Page 4:

10.

Translate a Millimeter into thousandths of an inch.

1,000 mm = 1 moty:
1 metaj = 39.37"

1,000 metaj = 39.37" or 03937"

11,

What is the specific gravity of metallic aluminum, magnesia and iron?

At a given, towing of it.

This is a well point at the with her not been withouth in the Commence held the impensioning. In connection will automate human design that improvements would be referred to in a too text both.

12. Thortowns!

What metal has the highest melting point?

I believe gold las, but iredium may have a ligher nelting point

13. (Tungatin)

From the referring of the row name numerals.

14.

With a 4-inoh shaft having a 5 foot driving pulley 24 inohes wide, belted and speeded to denvey 100 H.F., what is the maximum distance apart you would place the bearings?

assuming day 15 spin ging pass of nearly 4,000 po Street of ( 10,000 pet agent. Noveming distance apart = 16" Say & Satt

(Too for )

Page 5:

15.

Suppose you had a smooth plate of glass. At the end was a pulley.

Over this pulley ran a cord. Resting on the glass was an ordinary brick. On top of this brick was 5 others. Approximately, how much weight is necessary to start these 6 bricks slipping?

Maight of britishing to therefore 1x6 = ,6lt long this by reday . Herefore 1x6 = ,6lt

16. (no answer)

On the other hand, the cord is connected to the 6 bricks in tandem.

Each brick rests on the glass. Give the approximate amount of weight
necessary to be put on the cord to start all the bricks?

the same as answer to "to question as, due to the fact that the Californitor, does not very sto no I nate, low the frictional surfaces chapter as long as the weight remains constant.

7. (no cersum)

What are the metals used generally to produce the modern high speed tool steel?

The well known Manadum that with with high carron contents have been much in slight of which write has been connected with.

nichet and carton constitute the nain quality of good took teel.

(Venners uni Tungsten, Malyhdonus)

Page 6:

18.

Suppose you were transmitting power by a belt: The length between centers of driving pulley and driven pulley being 10 feet, and that with the load used the belt continually gave trouble from slipping. How would you stop slipping? If more than one way, describe them.

1 sply belt greace.

3rd Langeton (or lighton) dictioned detirem contine. I'd Clevate (or raise) driven pulley so as to

get betty are contact.

Generaly slipping of the nature is caused by the being other sensely of loth sulley whole, being two much with the same long other plane.

(not good unews)

In a very dusty place, how would you keep the dust out of bearings? 1th Installing felt wasters on each side. 3th Covering entire leaving with this sheet netal if lasting other not noting final.

Je In buffing and polishing slep a series of important blastings may be connected with small Exhaust hoods.

Page 7.

20.

How do you turn chilled iron? What Tool? Latte Tool High Carlon Tool.

(Jungaten Tool)

How much shrinkage is to be allowed on cast iron when you make a pattern?

about to "per foot for ordinary work. his is about of part of feet of partify names rule.

22.

Have you used sprocket and chain drives? What are the troubles you have had with them?

Mechanical design troubles pertaining to spacing of claim links but modern manufacturing natical Those produce good chains and with Jan even drive sprothets should work well if they are securely kept in the same straight light.

With machinery well designed so as to take up side stant property, the blain stander not give truble. The high stant due to stayle a sweeting ofthe on same may disengage claim if the alignment is not per march. kept rigide.

Chains may be operated with paul divisions and in Trouble due to being

Page 8:

23.

When you are given a problem to solve - for instance construction of a machine to perform an operation now done by hand,
how do you go about it? After you have gone through the first
proceeding, what do you do next, and so on?
Math. Arabinmany Alatalia afth analyzing the

thoy and aim of machine work.

( Subset the whitch for improvement them make as large preliminary layoutless possible.

atter making several sugarts of youral suign and after submitted receiving my

policy has been to distribute the distant being policy has been to distribute the distant being and distant drawing work to several lower valued and distributed and distributed have been as as work may get out in hurry, draften in this state lit is an easy marter to control the entire design from one foreigneet to control the entire design from one foreigneet

making the receiving bladger before compacting the design.

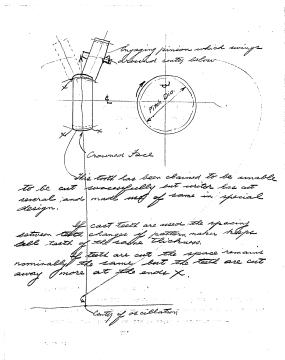
In my work I have found it unreadery to follow up a machine in the whole to make it Neck Bight)

What kind of gears give trouble, and what kind are generally free of trouble when both are subjected to the same stresses?

As ment one troubs if properly dissigned.

To grans you king the most beingto in form operate the most secure.

Other years are strough cometime if not properly set and are but as strong as an equivalent these pages for strong as an executive strong from the strong arminest meeting the continuence work with converse files of families to extend on neutral with a chief the and what work then an exlanged are grain than the trade when we compared are grain than the trade of troubs in comparem to other types.



Page 9:

25.

What is the efficiency of best spur gearing?

96 to 97 per cent.

this clock bearing, cut least, and well different natural of drives and driven glass; also tanks well absorbed to themse on a least of gr. 5 and 90 per cent, if for fine work.

Give efficiency of old style worm and modern worm drive?

ranging book 10 to 60 % afficient the motion worm which save less tien made problematical facility to 1 to percent afficient. There is no percent facilities to the percent of the percent

What is efficiency of chain and sprocket drive as compared to

spur goer artvo? Chem and sported and may be classed as spur year drive to about 14 % if well orlead, calculated and taken care of

What is the efficiency of the old type of worm drive as compared to sour gear drive?

Elle lype worm drive las a great deal lower afficiency for some transmission than any type of water year drive.

29.

What is the best known lubricating oil for machine shop tools, cost not being considered?

Land oil

Page 10:

30.

What is the difference between Nol 1 and No. 2 foundry iron? #1 (as the writer understands por textlooks) is taken directly from the formace hart and is privally and the formally from the formace heart and is privally all the may be thought and may be thought and may be made up of non taking party from beside heats" to have a great timely and confirming them the second that "The has a great timely and confirming thought than "The has a great timely and confirming thought than "The has a great timely and the second timely and the second timely timely the second timely timely the second timely t

The Delt pig non course crystales What is machinery steels 2 close fine grown, hand ducto impurition machinery steel is made sun commonly as the Beng rolled from the lot state derely raching the final

worther of biameters of standard acturate fines.

Open hearth protects What is Tool Steel?

Tool steel is similar to machine steel but

policies a greaty amount of carton. It with har not blead much sypanince in the composition of notate of the common type and has only a min little to take rather find at all highlight as not the line has been obtained from various tother to the line has been obtained from various tother to the line has been obtained from various tother to the line has been obtained from various tother to the line has been obtained.

Alter the proper nettods for use of the various What is Russia Iron? netile in relationship to marking disign is in in a storoligh way.

About what temperature Fahr. do bodies become visibly red? 1.500° to 1600° for ordinary structural steet.

Page 11:

35.

What is best method of shaping steel articles where close fit and

accuracy is necessary?

By lath turning; and milling, then by grinding spaces to the profess size. Exercise hay be earned by Meromette Measuring, that could there the marketing overfrom a spelant y the machinest of the machinest of the machinest. 0

In turning a shaft, do you set the cutting point above, below, or at exact center of article to be turned? It is laraly possible to set at exact centy. a reight Edutance below the actual centy is the stoper cutting point.

37.

If you had an automatic machine requiring many tools of many kinds and positions to drill, ream, plane, tap, etc., what is best method of controlling these tools - should it be by came, electric contacts, ratchets, jacquard cards, or otherwise?

Came arranged on I main edget (I posselle) is a very good method but require very alcunet design, in shat we proper time operation to each cam unit work with precision.

For reclamical work I would prefer the operations by came to advantage for confined nactions when it for possible to

a combination fall features could be considered which would undoubtiefly phone good working results. but conditions must floret be finalized. The first be finalized, thoroughand den designed,

Page 12:

**28.** 

What is the resson that a grindstone grinds faster when continuously wet with running water, than if it was dry?

The world such as a fallon of oil word in a beauty and present the world from chapping the such as the form chapping the such as the such of white grand rules."

39.

What is Alundum Abrasive?

A fine emery made of the finest of emery sands.

(Fused Alumina)

What is Carborundum?

(Carton Silicide)

11.

With what are emery or carborundum wheel particles held together to form a grinding wheel?

fused chang

Page 13.

42.

If you had a lever 10 feet long with the fulcrum 1 ft. from the end to obtain leverage, sketch approximate shape it should be made to insure the maximum strength of the lever? Neight to be little

I dis is critical section, and slape would a circular section & would be of letty ) Petres to operate book water if the working pressure acts in different against opporing way concertified

If you were to use a large diameter spur gear and small pinion and a stress of 1,000 pounds at gear teeth was required, how long

would you make the pinion?

gear to move continuous reel for the buttle face longth of the gear of would also mainted the estingth of the minor test if receiving the tasks rid from the form the forms of administration that beauty 12 tested in the present for the former top present for the period of the first first tested in the present the present for the period to the first tested in the present th much undercutting. (no amouser)

Is herring bone gearing as strong as straight tooth gearing? Why? the angle of inclination of the velocity present of part of the state of the state

What is the deepest chill that can be got practically on best chilling iron?

On a car wheel deep chilling law been successfully gotten to \$7. % (34 mehrs)

Page 14.

46.

How are malleable iron castings made?

Mey are catt similar as ordinary cast in casting are; but are then annealed, in, pure so as to make the same pliable to be able to receive which more readily

That popular properties has malleable iron relative to machining it?

What populary proportion has maleured from relative to manufact the legislated from relative to the control of the second of the relative to t

What are the two best known methods of Case hardening?

(Cyanido + parolema u (suther + annealing)

What is Babbitt Metal? What metals are used in best, and what in the poorest?

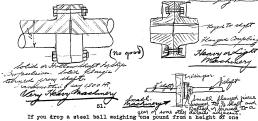
Babbitt retal is an alloy consulting of mainly give and lead.

(norther metal used, Babbet is Tim Copper)

Page 15:

50.

Sketch a flexible coupling, the best for heavy machinery, and also for light machinery.



ir you drop a steel ball weighing one pound from a height of one foot above an anvil approximately what will be the maximum pressure at the impact?

> Ene foot pound (42,000 lbs)

Does iron castings shrink or warp?

All mon castining stemmed. as casting about plant
I square it stelly mult warp due to pursuen petal
attorn and internal attested while cooling.

What populiarity has oold rolled sharting when turned up by a tool?

Let bettle it fracting of theoryte, and should not be calculation to intellested which the intellectual palaries for not like in because when the metalline doing abled able in the final process the rolled compress the frolled palaries at the final process when we a cooler the frolled palaries to the first content and in the content of the c

Page 16.

Б4.

Suppose you had a wheel 1 ft. in diameter, 1" thick and solid, made out of tool steel of good grade, - what maximum velocity, at the edge, would you think it would be safe to run it?

May be sum mile per minutes say 5,000 lest of per from.

White designing the perry slipe surveyer tradeling the star weighing 110 some since having 14"4" in oria and 49" thick at sim was calculated to run Got year.

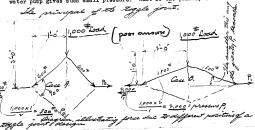
Jumps a sim relocity of races, 30,000 feet ser min.

He says form then 54-A
30 ood - Later Correct
What maximum velocity for good cast iron?

per minute as in Fig. orderly per minute as in Fig. orderly a good per per minute.

55. (8000 is sofi-)

Why does a hydraulic press produce such great pressure when the water pump gives such small pressure? What is the principle involved?



Page 17.

56.

#### What is a Chineese Windlass?

an existement operate generally by land, consisting of a next stancing sertically around which minds a higher or neares for pulling fromteting that a love large enough to be used or pulled in a circular nation around the decisal upright, as attended to to the part of healt apright must, the heart is projected in a base at the growth.

51.

Have you ever read a book called "707" mechanical movements?

No. But would be pleased to own one. I intend to obtain same and not only read it but study it throughly

What is an epicycloidal gear? Can you multiply leverage with it,

and hor? An appropriated year in one which seconds around it own common which and let the name time the algorith about a test point. I writing and let the name time the about a factor of the point. I writing out the medit will be presented to be hard to a higher taget was thing never write to appropriate parallel and passing heterack with a first parallel surface and passing heterack with a first parallel to the parallel and passing the proper with the parallel to the parallel and the same to the passing the passing the passing and the passing the passing the passing parallel passing the passing the

How would you drill holes in thick glass?

As from lettle experience with drilling class believe I used a quantity of turposition wind of which enabled may viriling than the places in question.

If you were required to form up a die, articles from thin steel, like tin plate, which would you use - the untinned lette at 7g a pound, or same plate tinned at 13g? If one or the other, why?

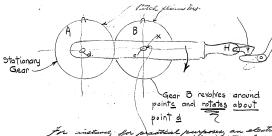
the antimied plate at 10 per pound not because of the cost, but because when stemping out the product the timber plate would hove fits coaling in various place wherever corners or beaut where made or finitely touched by the die.

Timplate as Tim acts are Subrecaut prevent tearing of

The applicant less sem interested in role the of gening and less rames same under the starting of cyclic opering" which would cover all planetary gen systems as well as epicyclic and by hyperyclic gening.

A not simple year of the nature would be

as follows. Example of two upon year.



notor may propell slots to which is attacked aportion and propell slots to which is attacked aportional gas & thereby causing arms, know the Herity goal O to rotate parout (know, a and at the end of landle H town the attacked a counting before or operating reclaming for permitting papers to feel to a certain machine or to accomplete dely purposes.

Page 18.

What kind of steel wire has the greatest tensile strength?

Chrome Mickel Steel Mine.

Clow Heel, specialy needs wire also has great tensile strength.

Where powerful vibrations take place, which material would you use, iron or steel in machine construction?

Steel secause of its ligher resiliency, ( pure wrought iron)

Which metal has the greatest expansion and which the least? Mercury las the greatest expansion.

/Zinc The least)

What solid substance used in many shops which can be turned, bored, etc., which has the peculiarity of expanding and contracting by heat more than any known substance?

Bakelite -

(Hand rullar

Page 19:

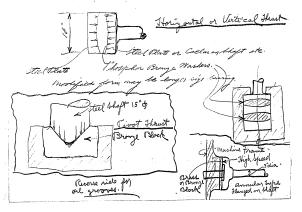
65.

What form of governor is best for regulating speed of small machinery? Sketch it roughly -

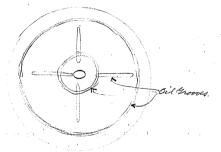
Slaft Governor

Shoe Brake type. were thrown out there to cantrifugal force.

Sketch 2 or 3 best types of thrust bearings:



One hether of Oal Growing



Page 20.

67.

What is best device for securing a gear to its chaft?

A key, Commonly a plan featly

Suppose you were compelled to use a very small pinion connected to a shaft which must be large to stand the strain, how would you insure its success?

Me no less than 120 13 tast. Me but said of abroluty recessary we the feet feet best in

hayle it of botto include the developmen seen.

School of source of period with the strength of periods of periods of sources with thought of automorphisms of sources with whomas of many also so not well-specifically; but with a making cutty only.

My are piston rings of steam engines always made of east iron?
The stead up betty amake working constitute as a when upon them make them more assystants for such work.

(Recause Boast view does not hore its)

What is high bress and low bress?

Sigh Brass contains ligh percentage Copper

Page 21.

How do they roll brass strips so they calliper the same thickness all over?

72.

How would you take buckles out of sheet steel? How do the mills do it and deliver perfectly flat sheets?

pull several check by hydraulia person until be ckles disappear

What is the friction bite of a locomotive on dry rails, say, weight of locomotive 100 tons? How many tons would it pull before slipping, approximately?

appear to love. What is a lap? How is it made and charged? a Toolmakers Lap is a bross instrument commonly used for accurately finishering a nactive surface and nating it vert knooth. O It is charged with emery and line machine oil and is nade of a brass cylinder with elongator slots in its frame and lolds a screw inside which expands the laps when recessor

Page 22:

75.

Is friction of a bearing, properly ciled, the same at high and low speeds, or does it increase with the speed?

All friction remains constant.

76.

What is approximately the melting point Fahr. of Cast Iron?

•••

Why is it that a soft leed bullet will pass through a 1/4 inoh hard steel plate without much deformation, bullet being shot from regular Army rifle. What is principle involved?

Because ligh velocity of least bullet overcome the searing resultance of fath steel cutting each fitte of tende at an instantaneous different origins of time

Traceda)

78.

Are you familiar with self-feeding of small casting to an automatic advisor device. Sketch out a dimple device:

| March | Control of the con

Jenny Stape of Change Survey to I have to great in well and care and care from the form of the control of the control of the care from the form of the care from the form of the care from the care from the form of the care for the care of the care

ending table Level.

Decembor 11,1919.

Mr. S. W. Avis, 205 No. Whitney Street, Hartford, Conn.

Dear Sir:-

Your answer to advertisement Box 138, Hachinery, has been received.

If convenient, Mr. Edison would be glad to have you come out here to see him on Friday, December 19th, about 9:30 in the morning.

For your information, let me say that there are two maps from the table Laboratory. One is by the Laboratory alighting from the train at lorsing the alighting from the train at lorsing the main street and take a trolley for West Orange, which will bring you to the door.

The other way is to take the train for Mewark by the union Tubes from New York. This would bring out out at Park Flace, Rowark. The walk down to the to the Terminal Building and set a trolley for west Orange, which will bring you to the door west Orange, which will bring

Please ask in the Gate House for Mr. Meadowcroft.

Yours very truly,

Assistant to Mr. Edison.

ESTABLISHED 1855

W. H. TAYLOR
MES. AND THEAS.
FRITZ J. FRANK
VICE-PHÍSIDENT
GEO.H.GRIFFITHS

The Iron A

REPRESENTAT WASHINGTON CON PITTERNOON CON PROPERTY BOOK SAFETY ADVERTISING

IRON AGE PUBLISHING CO

NAME OF THE OWNER OF THE OWNER

ORK December 16, 1919.

There's Edison Company,

Gentlemen:

A DITOT COMOUNT

Your advertisement in the Help Wanted Section was given the last insertion muthorized in THE IRON ACE issue of December 4th.

Naturally, we are anxiuos to know if we have succeeded in patting you in touch with the people you desire to reach.

Would it be asking too much to have you advice us of you obtained the desired results or whether any additional insertions will be necessary?

An addressed envelope is enclosed for your convenience in replying.

We thank you in anticipation of your courtesy in the matter and hope you will not hesitate to let us know whenever we can reciprocate in any way.

Yours for service;

THE IROS AGE

Dictated by C.SBAUR

Advertising Manager aur

8429

December 19 1919.

Mr. Edison:

Mr. S. W. Avis came in response to our letter and I handed him the Questionnairs. In about 15 minutes, after looking it over, he handed it back to me and said he was not prepared to undergo an examination like this from memory. He said that he had been through it all in his College days but had not retained it in his memory.

He says that his experience has not been such as would help him to keep these facts in mind. His experience in designing automatic machinery has been practical, but did not call for the kind of information brought out by the questions.

Meadowrist

December 22, 1919.

Mr. C. S. Baur, Advertising Manager, THE IRUN AGE, #229 West 39th St., New York City.

Dear Sir:

Your letter of December 16 has been received, but has traveled all over the place before it reached me here in the Laboratory. The correspondence heretofore has been conducted in my name.

I regret to say that we have not yet obtained the desired results from our advertising and may renew the insertion later on, but not at present.

Yours very truly,

Assistant to Mr. Edison.

Ediphoned: 24

Cuble Address "Edison; New York"

From the Laboratory Thomas A. Edison,

Orange, N.J. December 24, 1919.

To the big family of Edison workers, Greeting!

I wish you all a Merry Christmas as well as a Happy and Prosperous New Year.

Ordinarily the swift flight of time is not a subject for self-congratulation, but I have a feeling of thankfulness that a year has passed since the Armistice, and that "the horrid din of war" is growing more and more faint.

Prospectity and happier times are cheat of us, but it is up to us to overtake them. It is only work, - individual work and team-work, - that will enable us to acted up. The continued effort of every man and every woman is the only thing that will tell, and I count myself one of you to that end.

Thoo a Edwon

- I - Fluck rides

23193

State

December 31,1919.

State Department, Washington, D.C.

Gentlemen:

I write to ask your favorable consideration to the following matter:

Mr. Peter C. Christensen, of 116 High Street, Orange, New Jersey, was employed by Mr. Edison an Assistant in his Chemical Laboratory here for over ten years. He is a Daniel hotizon, but has taken out first paper for American naturalisation, and will shortly take this final papers. All: Christensen resigned from Mr. Christensen resigned from this elic. Tr. Edison has a not so into business for himself. Tr. Edison has a not so into business for himself.

Mr. Christensen's wife Johanna M. Christensen, about 32 years old, and their son Carl M. Christensen, 8 years old, are now in Europe where she went a few months ago to visit her mother. I understand that Mrz. Christensen and her son are at present in Sotterdem.

I am writine in behalf of Mr. Christensen to ask the State Department if they will kindly instruct the American Consul or other officials at Jotterdam to write the passport of Mrs. Christensen and son, in order to be passport of Mrs. Christensen and son, in order to be a super a super consultation of the super and son, in order to the super and son, in the super and care for his wife and child.

If the Department will kindly cable the instructions to Rotterdam. I shall be glad to forward the cost of the telegram on being advised of the amount.

Respectfully yours,

#### Edison General File Series 1919. Equipment and Supplies (E-19-30)

This folder contains correspondence and other documents relating to the purchase and use of tools and raw materials in Edison's laboratory and factories. Included is correspondence with former Edison employee Edward G. Acheson about an order for electrodes placed with the Acheson Graphite Co.; with Edison's brother-in-alw Halbert G. Hiltchock concerning custom-out glass discs ordered from the Pittsburgh Plate Glass Co.; and with U.S. Bureau of Standards director Samuel W. Stratton regarding the loan of a double spectroscope for Walter S. Mallory's examination of lithium mining regions in the western United States. Related correspondence by Mallory can be found in E-194-47 (Mining) - General).

In addition, there are letters pertaining to a search for suppliers of ceramic crocks; lists of equipment billed to various war-related shop orders; an inventory of the Columbia Street recording studio; and a list compiled by Theodore Edison of equipment at the U.S. Naval Station in Key West, Florida. Other correspondents include optical instrument maker John A. Brashear, electrical instrument manufacturer Leeds & Northrup Co., and filter press makers T. Shriver & Co.

Approximately 30 percent of the documents have been selected. The underlied includes routine correspondence about orders and shipping; catalogs and other printed matter; additional copies of standard inquiries sent to multiple vendors; and other items duplicating the information in the selected documents. Also not selected are letters pertaining to the disposal of gardening equipment and to bills for government contract work; copies of long lists of stock equipment and chemicals at the plants in Silver Lake, New Jersey; and routine business letters unrelated to Edison.

January 9,1919.

Mr. John A. Brashear,

Pittsburgh, Pa.

Dear Mr. Brashear:

Mr. Edison is very desirous of obtaining quickly the following for a special purpose, and he thinks that you will be able to fix him up. The items are as follows:

4 Nicol prisms 6 m/m aperture approximately:

2 Total reflecting prisms 6 m/m aperture approximately.

Do you happen to have on hand a pocket spectroscope, or can you tell me where I could obtain one for Ur. Edison very quickly?

If convenient to drop me a line by return mail stating when I may expect the above prisms, I shall be obliged. When you send the prisms, please address them to:

W. H. Meadowcroft, Edison Laboratory, Orange, H.J.

Yours very truly.

Assistant to Mr. Edison.

Sacchanist Vernon, It is

Sacchanist Vernon, It is

Sacchanist In the Sacchanist In the Service In the Service

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				9" 4 arch Phila Cont H. Wagner 1944 N. allicany to Chicago

Mi. Wheadoward sec of John Branker any fermisk

4 Nicol prisms 6 th aparture apparer. 2 Total reflecting prisms 6 th aparture offers JOHN A. BRASHEAR

JOHN A.MCDOWELL TREASURER

JAMES B. MCDOWELL RECEETANT ABSOCIATE DR. C. S. HASTINGS

## John A. Brashear Co. Ltd. ASTRONOMICAL AND PHYSICAL INSTRUMENTS

CARLE ADDRESS, BRASHEAR, PITTSBURGH WESTERN UNION CODE

PITTSBURGH. PA., U.S. A. January 14, 1919.

Mr. W. H. Meadoweroft.

Edison Laboratory,

Orange, E. J.

Dear Sir: -

We regret we haven't Luything in stock that will meet your requirements, as we are still engaged on our orders which will take all of the year to complete it is impossible to do any laboratory work.

If you can wait we could doubtless secure what you need from A. Hilger of London.

Very truly yours.

JOHN A. BRASHEAR CO. LTD

Scoretary

gall to Leake

January 15,1919.

Mr. W. H. Miller, 79 Fifth Avenue, New York, N.Y.

My dear Mr. Miller:

boxes which Mr. Edison unthe you to other, I greateness you will have to place with the Purchasing Department you do not know the whole produced you can be a factor of the product by telling you, as they are similar to two which we purchased last Summer.

Our order was for two (2) 30 Mile Receiver Shunts, in 15 divisions, two miles to a division. These are made by the Thompson-Levering Company, 323 Arch Street, Philadelphia, Pa.

by that concern to me under date of July 13,1918, from which you will see that these Shunts were made in accordance with Western Electric Company's drawing ES - 160111.

Thompson-Lavaring Co. made old like in a contained will probably require you to obtain a letter from the Western Electric Co. authorizing them to make these two boxes for you. Mr. D. W. Ewadall of the Western Electric Co. in New York is the particular person whom I called up on the subject. You that better got the Town of the Western Electric Co. The Company to make these two boxes.

Yours very truly.

Assistant to Mr. Edison.

January 23, 1919.

Mr. Meadowcroft:

This is merely a memorandum so that you would be posted when the matter is brought up in the future.

in Mr. Edison's name for a Pocket Spectrophotometer No. BS. 5455, and have obtained a loan of it until April 22d when it will either have to be returned or replaced.

written Mesers. Nutting and Kouffel au per carbon copies herewith attached. In ones you are not able to get any help of either of these gentlasses statutes augusts that you communicate with Adam Milger. 75 A Camden Road, London, Tw. England, who has made coveral of those intruments.

WIE.MALAORY.

T. SHRIVER & COMPANY

MANUFACTURERS OF,

FILTER PRESSES

HYDRAULIG PRESSES AND SPECIAL MACHINERY

OXY HYDROGEN ELECTROLYZERS

HAMILTON ST. .... PRANKLIN AVE.

HARRISON N.J. January 23rd, 1919

Mr. Meadoworoft, Edison Laboratories, Orange, M. J.

Dear Sir:

Referring to your telephone conversation with our Mr. Shriver regarding Filtor Present for filtering clay and lime, we are sending you by letter post a copy of our catalog, on page 15 of which you will firm illustration of the type of press most penerally used for filtering clay. The capacity of these press, of course, depends largely upon the kind of clay to be filtered.

Some clays are very clastic and are slow of filtration, taking scontines to 5 hours to a cycle. This applies more particularly to the Southern clays. Some of the Pennsylvanic clays, say-in the neighborhood of Allentown, are not so plastic, and filter very easily. In many cases a cycle cen he made in from an hour to an hour and a haif. Clays winned, in the heighborhood of Mortheast Maryland would take from all hour, and a haif to two hours per cycle.

While the press shown on page 15 of our outslog is suitable for that, work, or also make another type of press known as the Akkins-Shriver Filter Press Type 9%. To are enclosing sitalog covering this type, shich is self-explaint. Our Online is the exchange the presses out be under sort of the cover of the presses out be under more suitable to the type "H" as shown on page 15 of our general cetalog.

Te have a seport on the work of the Atkine-Shriver Type "00 press, swaking on Keolin, from Theo, Diviell Co., of San Francisco. This press mas equipped with 42 chambers, with a holding departy of 11.5 cubic feet. This produced 1428 pounds of clay per cycle of one hour and 20 minutes, cress, 304 pounds per 24 hours. A press of this type and size would cost you \$2800.00

Our Type 58 working on the same material, size 36° square with 46 chambers, making oakes 1° which; holding oapacity 31.15 ombic feet, making six cycles per day of 24 hours would produce approximately 23.248 pounds of clay. We believe our 36° Square 48 chamber press is as large as should be used for filtering clay. Thee \$1887.00 f.o.b. Marrison.

(2)

For filtering hydrated lime, we would offer Type the press as shown on page 18 of our entailog. Hydrated Lime filters very easily, and a 2° acks one biformed in a very few minutes. You are undoubtedly family that of the filtering to entrounce of each control of the presses filtering these products at your Carbolic Works at Silver filtering these products at your Carbolic Works at Silver filtering these products at your Carbolic Works at Silver filtering these products at your Carbolic Works at Silver filtering these products at your Carbolic Works at Silver filtering these products at your Carbolic Works at Silver filtering these products at your Carbolic Works at Silver filtering the same products and the same products and the same products are your control of the same products and the same products and the same products and the same products are same p Lake.

The price of a 38" square 48 chamber filter press Type "E" with frames 2" thick, with a holding capacity of 88.30 outsic feet, or a processing square of lime cake, would be \$250.00, f.o.b. Harrison.

If there is any other information that you may require that we have overlooked, we shall be glad indeed to give you the benefit of any experience we may have had in filtering these products, if you will advise us further.

Yours very truly,

T. SHRIVER & CO.

REP FK.

Turni Brass Whs, Sneamer J.C. 484, Thomas a. Edwar

January 25,1919.

Mr. T. Shriver, c/o T. Shriver & Co., Harrison, N.J.

Dear Mr. Shriver:

Your letter of January 23d signed by Mr. R. E. Perry, has been received and shown to Mr. Edison.

Me was very much interceted in the contents, and after he had read the told are to write to you and say that, of course, he knows about your filter presses at our Carbolle Plant at \$31ver lake, but in the drys that we were using them we were so busy that we did not knop any accurate records.

filter present, you must have believe a manufacturer of the present, you must have obtained a great deal of reliable date from your meny customers, and if there is entitled further along the line the tyou can said him. In addition to your letter of Amusry 233, he would appressive very made to date along these lines that you one, but of course, all based on facts in practice.

Yours very truly.

Assistant to Mr. Edison.

## January 28, 1919.

Mr. L. W. McChesney:

Mr. Edison has ordered six barrels of broken lead glass for the experimental run which he told you about. This will be delivered in a few days by Peter Leonardis & Sons, Hewark, H.J.

W.H.MEADOWCHOFT.

#### T. SHRIVER & COMPANY MANUFACTUREDS OF

MAIN OFFICE & WORKS HARRISON, J. TOLEFFORES FIRST FIRST MARRISON \*\*\*\*\*\*\*

FILTER PRESSES HYDRAULIC PRESSES AND SPECIAL MACHINERY OXY-HYDROGEN ELECTROLYZERS

HAMILTON SALINGE SANGLIN AVE.

HARRISON N.J. Jamary 28th, 1919

It were to the place of the pla

was addressed to him personally, it was not opened with the firm's correspondence.

Thile we are in possesion of reliable data on the filtration of clays, which is made up from some experiments we have made here in our laboratory, it has been very difficult to obtain accurate data on the working of our Filter Presses, owing to the foot that un have not almays had access to the glants using our Filter Presses of the glants using our Filter Presses in the company and the pressure of the pressure us that we have been unable to send anyone to study the conditions.

As you will note from our letter of January 23rd, there is a mide variation in the rate of filtration of clays, due to the difference in nature, and the informa-tion we gave you was based on our actual experience.

If you can procure some of the clay for which you are contemplating Filter Presses, and send it to us, we will be very glad indeed to make experiments here in our will be very gian indeed to make separations are in our laboratory, from which we could figure accountedly the capacity of our Filter Presses working on that particular kind of clay. We would like very much to do this if you can arrange it. Kindly advise us.

Yours very truly,

REP FK

T. SHRIVER & CO.

January 30,1919.

Central Scientific Co.,

Chicago, Ill.

Gentlemen:

at the Aberdeen Proving frounds and he tells me that you norobally have in stock some direct vision grating spectroscopes. Please let me know what you san supply at short notice in this line. We need two.

Isom also desirous of obtaining four (4) Nicol priams of about 6 or 8 millimeters amerture. Can you supply them or adviso me where they may be obtained?

I will greatly appreciate an early reply as the matter is urgent.

Yours very truly,

Assistant to Mr. Edison.

Jan 29 1919
Central Scientifie Co. Chicago Il.
Guttenien Spare just Red a taske with
Mr. Wallace at the Obodeen Proving Graund and he tells me that you probably lave in stoole some Its direct instructions again mathematical
at short notice in his line Who need two also demand
letaming four (4) Mical forming of actions of
you supply them of advise me where try may be
Friel greatly appreciate an Early peoply as the matter is urgent Yours very truly
N
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# NATIONAL SPONGE & CHAMOIS CO.



TELEPHONES (3168) BEEKNAN
CABLE ADDRESS

SOBORDO, NEW YORK

EXECUTIVE OFFICES:

158 WILLIAM STREET,

NEW YORK, N. Y., U. S. A.

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Jamary 31, 1919

· Lill

The Edison Electric Company Orange N J

Gentlemen

ATTENTION MR. W. H. MEADOWCRAFT

We are informed by our factory, the National Chamois Tenneries of Newerk, that they have forwarded you samples of sizes 8x10 and 9x11 yellow Chamois.

The prices on these goods are as follows:

8x10 ----- \$2.34 per kip of 30 pieces

9x11 ----- 2.87 " " "

Chamois Skins are sold net; no cash discount allowed on Chamois Skins at the present time.

Thanking you for this opportunity, and trusting you will see your way clear from these samples to favor us with your valued orders, we remain

Yours very truly

NATIONAL SPONGE & CHAMOIS CO.INC.

motion

SMH:BG

6433

February 1,1919.

Netional Sponze & Chamois Co. Inc., 158 William Street, New York, N.Y.

Gentlemen:

Let me thank you for your prompt and conrisons attention to my telephone request for samples and priose on yellow chemcis. The namples came to band this morning and I have handed then to Mr. Mison. He is experimenting with them to see if he can use them for a special purpose and if he can, I shall be glad to communicate with you further.

Yours very truly,

Assistant to Mr. Edison.

February 1,1919.

Mr. T. Shriver, Harrison, N. J.

Dear Mr. Shriver:

of January 29th and showed it to Mr. Edison H. wants mn to as: to you that it appears strange to him that your concert, which has been in business so many years, did not have our josty enough to wantor date as or presses, so that an outsider could get some approximate idea of their capacity.

I am giving you the message in Mr. Edjson's

Yours very truly,

Assistant to Mr. Edison.

February 3,191°.

Mr. Willard B. Wright, 1514 R. Marvin Street, Philadelphia, Pa.

Dear Sir:-

Hr. Edison understand that you are a menufacturer of ciled slik such as is sold by DruggistsSupply Houses.

supply of this material in our foctory, and ir.
Edison would like to have you sand a sample, together
with quotation in lots of Eb and 100 years at a time.
Lindly address sample and your reply to:

W. H. Lieadowcroft, Edison Laboratory, Orange, N.J.

and I will bring it to Mr. Edison's personal attention.

Will you kindly reply promptly, as Mr. Edison is zoing away to Florida in a few days.

Yours very truly.

Assistant to Mr. Edison.

A/6444.

# Central Scientific Company

## Physical, Chemical, Agricultural, and Biological, Apparatus

Сипсасо February Third,

Mr. W. H. Meadowcroft, the Laboratory of Thomas A. Edison, Orange, New Jersey.

Dear Sir:

ultimo, relative to our direct vision spectroscope in which Mr. Wallace mounts the gradings. I price our No. F-6881 spectroscope, which work is price to you at \$15.00 net f. called the price of the country of the cou

we regret to inform you that we do not have any at this time. They have been off the market for several years, we have hopes of securing some within the noof it months, at this time, we do not have any immediate source on them.

Yours very truly,

CENTRAL SCIENTIFIC COMPANY

aBC.

ABO-MO.

Mr. Warner

ESTABLISHED IN 1850

# O I L'SILIN AND MUSLIN

(DIRECT ALC CES

Philadelphia, Fob. 5th, 1019 181

W. H. Meadoworoft Edison Laboratories, Orange, N. J.

Dear Sir:-

In reply to yours of February 5th, enclosed find samples of Oil Silk, prices are:-

Opaque Oil Silk 36" wide \$7.50 per 5 yard roll, less 5% cash 472' yd

Fr drug Ked Opaque Oil Silk 30" wide \$3.55 per 5 yard roll, less 5% cash .61 yd

Bright Oil Silk 30" wide \$4.25 per 5 yard roll, less 5% cash.

Very truly yours, Willard B. Whight

Price is from 5 yards up.

February 11, 1919.

Mr. Willard B. Wright, 1521 M. 12-th Street, Philadelphia, Ponna.

Gentlemen:

We are emplosing herewith our Order No. 388370, for three (3) rolls of Opaque Oil Silk as specified, in accordance with your quotation of February 5, 1019, to our Mr. Maddoceroft. We also enclose herewith our check No. H 711, for \$15.00 in prepagament of this material.

Trusting you will find the enclosed to be correct and will make immediate shipment upon receipt hereof, we are

Yours very truly,
THOMAS A. EDISON LABORATORIES,

JMI Jyder
OFFICE MANAGER.

CC:Mr. Meadowcroft.

MR: AJU.

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TELEPHONE 7735 MARKET

ESTABLISHED 1871

CABLE ADDRESS : "MAYLEON"



RAGS, PAPER STOCK AND WASTE

PAPER MTG. SUPPLIES - ALL GRADES OF BURLAP.
WOOLEN MTG SUPPLIES - ALL GRADES OF HAIR

55-57-59 RIVER STREET

132 NASSAL

Newark. N.J., Follower 14/19

Thomas A. Edison Laboratory, Crango, N.J.,

Dear in: Reedoworst:

We delivered to your princery bettery
division, 311ver, Date, U.J. when days upo 6 sample berrels of
Broodlyn leed Class us per order received from you. Tide completes
your order.

The till in Alexand to have you entre no

just as soon as jou are reely to purchase this place in larger quantities.

Yours very truly,

PREST INCLEADED & SOUR

#### CF. 5 1919]

#### SHOP ORDER NO. 5005 ... EQUIPMENT.

	Feb.	193	Transformer, Magnet Spool - 2 Transformers, 1 nead Edition Receiver, \$ 29.47
	March	328	1 Weston Milameter
	April	19	1 "F" 22 Tool Box, 1 Set Tire Holders #69, Tire Straps 3- 3/4 3.85 /2
			1 Gasoline Berz Torch
		30	3 Deffons Complete
		88	3-30/4
		63	2 Camp Stools, 6 Green Shades, 6 Pulleys
		114	1 Tank
		157	1 - Amin - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
		199	
		203	
	M <sup>EZ</sup>	17	1 Floren Hom
	~89	24	7 The Theresto Home 7 59-2 Howmen
		77.	to Dr. Water Barra & Compliance
	ü	101	1 Motor with Polley 10 20
		112	12 10 / X
	Mav	165	200 70 / Chause
	June	33	13 00 /
	June	49	7 40 / //
		155	12 Bipolar Receivers
		177	10 Cells and Steel Boxes 68 00
	**	98	1 Universal Operating Receiver Set 10 18 / - 7
		218	1 Delco Plant. 5 cells charged 259 25
	**	223	1 Wide Field Coular and Tube 10 00
	**	230	1 T. C. Cut Out. 3 M. C. Condensers 3 74
	July	14	2 Bress Purene Extinguishers 16,00
	n n	44	
		46	1 Dodge Wood Puller # Z Dodge Common Flat Boxes 2.15 6 71
	**	65	
		**	
		199	Camera and Supplies
	**	105	2 Input Transf. and 2 Output Transf
		124	
	**	166	3 Steel Tanks
		214	3 Steel Tanks
	August	41	1 Zeisser Protar Comp. 82.00 1 Crown Bripos 6.75, 1
	_		25 Gas. Generators 17 Pomp. P. K. Lemp House 12.60 98 35 5 1 2 cissor Protor Comp. 82.007 1 Crown Eripod 6.75, 1 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
		42	1 Repeating Coil, 1 Induction Coil, 2 Transmitters 7 29 X
	**	43	
	n	53	
	Sept.	5	
	H 2	24	
		79	1 Copper Horn Bell
	**	109	1 Studio Scale and 1 Magazine Press 29 90
	**	158	2 Doz. Acotylene Generators
			•
/			The state of the s
/ .	Hestelin		
9	+	Calles :	man and a second
cro	1 100+0	,	
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## SHOP ORDER NO. 5005 \* \* \* EQUIPMENT.

1917 Month	No. of Voucher	Continued.
Ontober	39	2 Tap Wrenches
	95	2 sleeves, 2 Lathe Tools, 2 Clamp Dogs
	117	1 Drill Trip Press, 1 Union Drill Chuck and Key and 1
		Morse Taper Arbor 139,25/
	159	1 Lathe Chuck
	176	1 (Proto Light Acetylene Cylinder, 1 Pr. Goggles, 1
"	186	
		Starter Rod 15 00
Novembe r	13	1 Klaxon
	21	1 Weed Chain
	45	1 Negram Lock
*	168	Generators, Condenser Lens, Stereo Lenses, Rheostat 259 78
Decembe r	48	2 Single eye Cable grip 10 26 //c-
*	67	Text Books
"	51	4 Transmitters
1918		10 240
January	48	4 Invalid Rings
April	213	10 Blankets, 10 Quilts, 6 Pillows 50 40
May	4	2 Wheatstone Bridge
June	36	1 - 203 3 1/2" Parker's Vise
	45	6 - 128 Watch Case Receivers
July	178	2 Phone that of Case inscrivers
oury n	170	2 Rheostats
August	13	1 Pr. Head Receivers, 1 Transmitter No. 284 10.70 / ×
Augus t	56	6 Hand Telephones
		2 - 400 Degr. Thermometers .1.50 and 1.25 2.75
September	52 52	6 Type V Andion Bulbs
"	52	6 - 128 "W" Watch Case Receivers 14.49,6-128 "W" Watch
	'	Case Receivers 14.68 29.17 J ×
	105	1 Accumulator Set up in Bldg. No. 4 369 34 4 2
	241	3 - 00 Armstrong Tool Holder S. L. R. (1 of Each) 5 94 / week
October	5	2 Kinetophone Outfits, Rheostat 29 40 / 207
	67	1 = 300 Degrees, The rmometer 1 40 / "
	237	1 Tarton Sound Book
December	197	15 A-6 Cells Charged
1919		
January	86 <del>m</del>	3 Hand Telephones
		12 O. H. M. " Receivers
. "	"	2 mind modelvers, 2 watch Case Receivers D 14084 13 03 / "
*	51	1 7/16" Expansion Reamer
Pebruary	51	2 Rec. Shunts
	112	12 Regular Bell. Teleph. Commercial Microph. Speakers 22 20 /
		Compl. Hand Salambana Sat Match Co. Parties appeared to the

#### ECUIPMENT.

SHOP ORDER NO. 5011.

#### 1917 ٧o .12.50 X No. 337 Month 1-250 Motor Assembled . . . March 5 95 % 347 1 Ammeter . . . . . . . . 32 4 50 4 April 2 Worm Wheels and 2 Worms . . . 164 2 Engine Nickel Clocks . . . . . . June Shop Order No. 5013 1917 March 326 70 April 207 \*\* \*\* 160 Иау 1 Miniature Voltmumater . . . . 73 June 1 Micrometer eye Plece . . . . 141 5 86 -3 Local Battery Transmitters . . . . August 63 November 53 1918 225 . . . . 250 00 January 214 February 100 M 8 Cells Charged . . . . . 211 March 3 - 329 W. Transmitters . . August 13 18 10 / 159 30 00 -October 215 N. J. Telephone Go., for instalment of Eqpt. and wiring 42 December SHOP ORDER NO. 5016 1917 April l Arc Lamp, 2 Joints. . . 210 SHOP ORDER NO. 5037 Š. ¥343 00 ~ ≪ 1917 68 . . . . . . 30 00 1 April . . . 2 157 1 Winter Top wind shield and Body for Ford and 1 Side Tire octot mount 38 3 75 1 4 4 6 00 3 1918 182 136 1 February and 1 Set Weed Chain Ad 1 85 × 164 85 -1 50 / x July 91 August

#### #QUIPLENT.

SHOP ORDER NO. 5044

	Vo. No.	
Month.		4 Receivers and 2 Bransmitters
March	348	4 Receivers and 2 Transmitters . 2.00 × 1 Yacht Bell
April	30	1 Yacht Bell
**	73	1 Selenium Cell Typer
**	75	4 Radio Operator's Receiver Sets
	105	6 Secondary Induction College Branch State College Col
May	2	Midnight Landh Outilt on Ford Frame
**	26	1 Car Body to be mounted on a service of the servic
n	113	1 Marconi Variable Disc Condensor
	141	1 Pt. 10" Brass Tubing 12 60
June	182	1 Pt. 10" Breas Tubing . 12 80 4 Head Telephone Receivers . 12 10 4 Positive Coular Loous . 12 10
August	126	2 Positive Coular Loous
		SHOP ORDER NO. 5090.
1917 May	176	1 Gasoline Anal. Apparatus with Explosion Burrett, 3doz. Rabber パンシン 51 85・シンシン 6 50 メンシン
July	76	1 Stop Watch
August	54	
Augus v		
	142	100 Cells Charged
**		
Septembe	r 82	
October	35	
W 00 101	166	
**	н .	
	. 106	1 Special Plede Glassward 1
1918	. 200	
January	132	1 B & S Test Indicator
eamour)	184	
	196	
Februar		
reprunt	350	2 Kinn's Generators, 1000 CC

#### SCUI PIANU.

SHOP ORDER NO. 5147

		SHOP ORDER AU. DIET		
1917 Vo.	No.	•		
Month		1 - 50 Ft. Lufkin Steel Tape 4.75 / Love		
July	153	1 - 50 Ft. Lufkin Steel Tape 4.75		
·v				
		SHOP ORDER NO. 5153		
1918		1 Rear Axle Housing Assembly		
	225	2 Poor Ayle Housing Assembly 70 00		
January		instruction of Bally Villa Cottle		
February	60	3 W 329 Transmitters @ 2,19 and Postage 6 85		
March	60	3 W 329 Transmitters & 2,15 and rostage		
		the state of the s		
1917		SHOP ORDER NO. 5171		
June	84	1 Cooke Telar (Credit to Gov. August 1917) 49 00		
September	39	1- 2nd Hand Goerz Serv.#8 (Cr. to Gov. Janag1919) 110 00		
Dop tameou		### SHOP CENER NO. 5171 1 Cooke Telar (Credit to Gov. August 1917)		
3038		SHOP ORDER NO. 5245 1 Stadia Hand Transmit		
1917 July	161	1 Stadia Hand Transmit		
anta	TOT	I Statuta and Alexander		
		THE COURT WAS BORREST		
1917		SHOP ORDER NO. 5273		
October	79	1 Black Windlace 8 10		
		SHOP ORDER NO. 5452 Pinhing Supplies		
		fine and the second of the sec		
1917		SHOP ORDER NO. 5452		
August	75	Fighing Supplies		
	84			
Sentember	74	1 Sheet Meral Apparatus		
November	134	1 No. 10 Auto force Ventilator		
MOAGMOGL	104	1 80. 10 840 10100 (813)		
****		SHOP ORDER NO. 5535		
1918		1 M. S. 115 V.20 P. H. 1050 RPM Series, Motor #605232 409.50		
March	147	1 Smunt Worm Motor, 1 Standard Pulley, 1 Set of Rails,		
September	99	1 Smint worm motor, I standard rulley, I do to 1 223.00 /		
		1 Smnt Worm Motor, 1 Standard Pulley, 1 Set of Rails, 1 Wood Base, 1 Controller 123.00 (640 00 )		
n	168	100 Cells charged 640 00 y		
		•		
		SHOP ORDER NO. 5632		
1917		1 Ston Watch		
September	153	1 Stop Watch		
		-		
1918		SHOP ORDER NO. 5699  1 Welding Outfit (Delivered to Mr. Fred Ott)		
January	225	1 Welding Outfit (Delivered to Mr. Fred Ott) 4 150 00		
Hovember	0	1 Water (Manusconned Sugar S. O. 5746) (2011/1901/1901) 179 45		
		150 00 15		
December	25	2 West Levels Assembled		
1919		39 90		
January	86	6 Receivers		
		•		

#### SHOP ORDER NO. 5746

		_ ROULPHENT -
1917	Vo.	25 Cells Charged
Month.	221	25 C-12 - Thousand 160.00 / 150.00
August		25 Cells Charged
November	113	1 Standard Lynite riston
December	7	
1918_		24.00
January	132	1 Fire Extinguisher, 29100, 1 Yankee Drill, 1 Sten-
		cil Brush, 1 Brass Plump Bob 8.28 37 28
11	231	1 Fire Extinguisher, 23100, 1 Yankee Drill, 1 Sten- cil Brush, 1 Brass Flump Bob 8, 28
	241	
	~~~	120 A - 4 cells charge (act to 50 4 47 5 5 221.16 504 47 1 Figure 470 No. 4 Brass Lined, Challenge Pump 26 35
	139	1 Figure 470 No. 4 Brass Lined, Challenge Pump 26 35
February		1 M O D 280 Fort. D. C. Vold Ammeter and 1 Leather
**	105	1 M O D 280 Fort. D. C. Vold Ameter and 1 Leather Case
		3 45
**	156	
**	75	1 Gas Tank, 1 Sediment Bulb, and 1 Motor Ford (
		Trunsferred in Nov.1918to S.O.5699)
		(179:45) (4p)
June	129	(179.45)  1 GA - A-25 MS Comp. Motor - Berling Magneto : 103.53 % * 35 %  1 GG 500 B Comp. 3 Speed 62 125 / gg.
ouno H	129	1 06 500 B Comp. 3 Syped
July	109	1 Hondanson Mator
		1 - 4 Operture E. F. Lens 9 00 /
September		1 Shaving Machine Motor
Rozemper	151	
	228	1 Lens 7" Velostigmat 8192 Series 52.00 ya

Following classes of Material and Supplies not included.

Hair Folt
Wiro and Cable
Hardware
Steal
Benkers
Lumber
Castings
Chemicals
Ammunition, Powder, etc.,
Hoe
Tubing, Brass Rabber, etc.

#### INVENTORY OF MATERIAL AND EQUIPMENT.

#### COLUMNIA STREET STUDIO.

March 27, 1919.

#### MUSICAL INSTRUMENTS.

- 1 Acolian Pianola. Good Condition.
- 1 Organ
- 1 Violin and Bow in carrying case. 1 Flats and Sharps).
- 2 Kylophones, (1 Natural 1 Baby Grand Hardman Planc.
- 1 Piano Bench

- 1 Box Containing Set of Chimes. 1 Set of Chimes, 18 Pieces. 1 Blasin's and Sons Piano.
- 1 Bass Violin and Bow
- Miscellaneous Music Strings
- 10 Music Rolls for Pianola.
- 3 Wooden Music Backs
- 3 Metal Folding Music Racks.

- PHONOGRAPHS, ETC.

  3 Large Cylinder Mechanisms
  - Miscellaneous Disc and Cylinder Records. 12 Miscellaneous Phonograph Horns
  - 1 Large Electric Cylinder Phonograph. 1 Disc Phonograph Cabinet and Mechanism (low Type)

  - 3 Boxes Magellaneous Phonograph Parts.
  - 1 Business Mechine 1 Shaving Machine
  - 1 Manying Machine
    10 (Approximately) Discarded Phonographs. No Good.
    1 Rack of Master Cylinder Records
    2 Extra Large Special Horns
    1 Extra Large Special Horns, Not Assembled.

- GENERAL EQUIPMENT:
  4 Rolls Rag Carpet
  1 Box Cotton Blankets from "Boat"

  - 2 Folding Cots

  - 2 Folding Octs
    1 Iron Stand Wood Koop made)
    1 Hooden Eable (home made)
    1 Hooden Eable (home made)
    1 Step Ledder Sacly damaged
    1 Step Ledder Sacly damaged
    1 Canter
    2 Hodding Gamp Chairs
    1 Galvenized Iron Hall
    1 Galvenized Iron Hall
    2 High Tables (home made)
    2 High Tables (home made)

- EXPERIMENTAL AND GENERAL

  1 Trunk containing Misc. small just and
  - 3 Air Cushions (Rings) New
    - 4 Page. T. A. E. Marked " Lamp Black?

INVESTORY OF MATERIAL AND EQUIPMENT.
COLUMBIA STREET STUDIO.

March 27, 1919.

2 Tension Scales. 1 Box 95 No. 4 Columbia Dry Cells 1 Phonograph Packing Case. Sectional Tube or Horn 1 Box Wooden models (?) Government Experiments.
1 Box 1 Large Jack and Miscellaneous Models 4 Rolls Rubber covered wire 1 Roll Insulated wire 1 Roll Instituted wire 1 Roll Twisted drop light wire 1 Rog unopened Marked (U. S. Government, S. P. 198) 1 Rox 17 Shells 6 Rounders 1 Box 8 Shells 6 Pounders 2 Repair Kits Vicker Machine Gun 3 Cartridge Clip Boxes and 3 Cartridge Clip Belts 1 Box Cartridge Clip Belts 1 Box Shell parts 2 small Steel Tanks U. S. Government 2 Boxes Miscellameous Electric Apparatus or models 1 Box Wooden Models marked "1 Square Hickey" 1 Box Wooden Models marked "2 Copper Hickey" 2 Experimental loading or tuning coils 1 Box marked No. 5 Records from Key West 1 Box marked No. 3 Records from Key West 1 Small Metal Tank 1 Brass Diec 1 Long Box (?( Government Experiments 2 Sheet Iron Tanks 3 Boxes Wood Patterns or models (?) Government Experiments 1 Carrying Case Moving Picture Apparatus 5 Wooden Film Boxes 2 Boxes Miscellaneous small parts (?) 2 Electric Mechanisms (?) 1 Experimental Electric Motor 1 Edison Kinetoscope Recstat 1 Bundle Wire Rods and Couplings 1 Can of Cork 2 Large Bundles Cow Hair Returned from "Boat"

ABOVE BIST TAKEN BY MR. G. M. RYDER AND MR. W. A. BENNEY, MARCH 27, 1919.

Dr.S. W. Stratton, Bureau of Standards. Washington, D.C.

Dear Dr. Stratton:

louned to Mr. W. S. Mellory a double spectroscope which he desired to use in a certain investigation that he is making for Mr. Edison out West. Mr. Mellory signed a receipt for this Instrument, in which it was stated that the same was to be returned about April 226

I have just received a letter from Mr. Mallory stating that it will be necessary for him to extend his investigations up in a mountainous country which is as yet cover with snow. Hence, he will be unable to go there at present.

Mr. Mison is in Florida, but will return shortly. In his absonce, I am thather the liberty of writing to you to sak if you can conveniently extend the time for the return of the double srectroscope until about June 22d. I know that it will be a maccanded into U.F. Edison if you onn de this, and I trust that it will not inconvenience you to give your assent.

Yours very truly, and Yours For the Victory Loan,

Assistant to Mr. Edison.

DEPARTMENT OF COMMERCE BUREAU OF STANDARDS

WASHINGTON

HDO. IV-4

April 11, 1919

Mr. Wm. H. Headoworoft, Laboratory of Thomas A. Edison, Orange, N. J.

Dear Mr. Meadoworoft:-

We are glad that Mr. Mallory is finding

the double spectroscope, loaned to him by the Bureau, of use in the investigations which he is making for Mr. Edison.

We are glad to assent to your request of April 9, to extend the period of loan for this instrument to June 33rd, or somewhat later than this, if the investigations under way are not completed at that time.

Yours very truly,

Dear How you are windered, with

April 22,1919.

Leeds & Horthrup Co., 4901 Stenton Ave., Philadelphia, Po.

Gentlemen:

. Will you kindly quote Mr. Edison a price on a resistance box of 100,000 chms in sections of 10,000, 20,000, 30,000 and 50,000 chms, respectively. In other words, he wishes to be able to plug in any combination between 10,000 and 100,000 chms.

Please also say whether you have one in stock, and if not, how soon it could be supplied.

Yours for the Victory Loan.

Assistant to Mr. Edison.

A/6999

### [ATTACHMENT/ENCLOSURE]

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#### THE LEEDS & NORTHRUP COMPANY

ELECTRICAL MEASURING INSTRUMENTS 490I STENTON AVENUE

PHILADELPHIA

REFERRING TO Your letter Apr. 2 2nd.

April 24, 1919.

Laboratory of Thomas A. Edison

Orange, N. J.

Gentlemen:

Attention: Mr.

We acknowledge and thank you for your communi-cation of the above date regarding a 100,000 ohm resistance box. We take pleasure in quoting on our octalogud number 4246 instrument.

This box has four sections one of 10,000, one of 20,000, one of 20,000 am one of 40,000 ohms. These can be inserted in the circuit in any combination as it is possible to get all values in steps of 10,000 cham between 10,000 cham and 10,000 ohms. On this resistance box we take pleasure in quoting as follows:

1--No. 4246 Resistance Box, 100,000 ohms......\$50.00

The above price is f. c. b. Philadelphia, boxing extra at cost; terms thirty days not, no cash discount. All prices subject to change without notine;

We take pleasure in forwarding you, under separate cover, a copy of our catalogue No. 50 on page 31 of which you will find the 4246 registance box described. We will be able to make delivery on this box in ten weeks from date of receipt of order.

Very truly yours.

LEEDS & NORTHRUP COMPANY

TMS · K

dwern i the Stain grows up of such.

This is a free described of such.

The Edward Co. The described of such.

The Edward Co. The described of such.

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#### ACHESON CORPORATION

AEOLIAN BUILDING 35 WEST FORTY-SECOND STREET

NEW YORK

June 18, 1919. More

Mr. Wm. H. Meadowcroft, Laboratory of Thomas A. Edison, Orange, N. J.

My dear Mr. Meadowcroft: --

In order that you may have all the necessary information on hand regarding the electrodes that Mr. Edison may desire, I am given you below confirmation of a telegram, also quotation from a letter received this morning from the Acheson Graphite Company written by Mr. Acheson Smith, Mice-President of the Company:

> (Confirmation of Telegram) "Niagara Falls, N.Y., June 17,1919.

Dr. Edward G. Acheson: One-half by five by twelve plates not stock size we have on hand one hundred fifteen pieces one-half by six by twelve from which former size could be cut one-half by eight by twelve would probably have to be cut from two by eight by twenty-four we could supply material for about one hundred pieces at once. Acheson Smith."

(Extract from Letter) The 1/2 x 5 x 12" plates are not a The  $1/2 \times 5 \times 12^n$  plates are not a stock size with us and the nearest we have to them  $1/2 \times 12^n \times 12^$ than 6". The only sizes we have on hand from which they could be cut would be 2 x 8 x 24"

Mr. Edison

One dozen of these are on the way.

and  $2 \times 9 \times 12$ ". We could easily supply 100 plates  $1/2 \times 8 \times 12$ " cut from these sizes, or

amply them the material so that they could do the chitise, Should they want Larger quantities, we should have the order as soon as possible, so that we can start to manufacture, as it will require at least six weeks to bring them through the process. If it has your approval, we fir the process of the proc

telephone. I may be called as I sayted you yesterning over the you would want to communionte with me regarding these electrodes. In that event please communicate with me regarding these electrodes. In that event please communicate directly with the Acheson Graphite Company, Miagore Falls, N.Y. and mark the letter for the attention of Mr. Asheson Smith, Vice-Tresident

Yours very truly,

EGA/RES

Contract of the contract of th

June 20,1919.

Dr. Edward 20. Acheson, 35 West 42d Street, New York, N.Y.

My dear Dr. Acheson:

Your letter of June 18th has been received, and Mr. Mison wishes me to thank you for your kind and prompt attention to his request. He also wishous me to express his approciation of the full particulars which you have forwarded to him.

After I repeated Mr. Acheson Emith's etologram to him the other day, he requested me to telegraph up to Risgrar Falls and ank them to send a dozen of the plates 1/2 x 6 x 12 inches so that he could try them out. I did so end received a telegraph from Mr. So the thousand mer many that the plates had been chipped:

With kindest regards, I remain,

Yours sincerely,

Assistant to Mr. Edison.

A/742

....

M Edison: I could not find in the directories any pottery so I thought I might get the information from american Die tSupply Co, They told me you cannot get in new Jarrey - The nearest por Liverpool or Akron, Ohio However, they dead in crocker and have the following; Diam. 22" x 25" deep, inside, 1/2" wall - capacity 40 gallows Price of large size \$16 They have in slock 18 of large ones. no covers mearowarf

TATTACHMENT/ENCLOSURE rocks aldoured my Kinlop + Link Patte Malawan U Believert March 70 no . Trendow ple under Pallery

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#### [ATTACHMENT/ENCLOSURE]

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Elite Pottery Co.

Manufacturers of Vitreous China Sanitary Earthenware

TRENTON, N. J., July 7th,

Mr. Thomas A. Edison, Orange, New Jersey-

Dear Sir:-

#### Attention: - Mr. Wm. H. Meadowcroft-

Answering your circular letter of the 3rd inst. we regret to advise you that we are not in a position to manufacture crocks of any kind at the present time.

Thanking you for the inquiry and awaiting your further communications, we beg to remain,

Yours sincerely,

FGH:MB

M. Edward we are measured by and the letter of the letter

## THE COOK POTHERY COMENYA

ELECTRICAL PORCELAIN SPECIALTIES

TRENTON, N.J., July 7, 1919.

Laboratory of Thos. A. Edison,

Orange, N. J.

Atten. Mr. Wm. H. Meadowcroft.

Gentlemen: -

Replying to your letter of July 3rd we do not manufacture crocks, our product being confined to dry process porcelain. We would suggest that you take this matter up with the Fulper Pottery Company of Flemington, N. J., which Company would be in a position to furnish you with exactly what you require.

Thanking you for the inquiry and regretting that we are unable to serve you in this instance, we are Yours very truly,

THE COOK POTTERY CO.

Supplies used on Laboratory Shop Order (Edison Personal (X) #5746 by Messrs. Theodore Edison and S. G. Warner which were turned in to Mavy Yard at Key Wost, Florida, for credit against issues by Navy Yard (for such material as was drawn from Navy Stores) and for safe keeping (for such material as was purchased by Messrs. Edison and Warner).

Listed by Mr. Theodore Edison - List to R. W. Kellow 7/26/19.

```
5/14/18 .- Supplies sent to the Eavy Yard.
(These marked * were turned in for credit).
(s-storage).
```

```
50 feet 1" brass pipe.*
   tent & fly (poles not sent).*
 large cranks | storage.
```

800 feet rope 1" dia.\* fly wheels. s. coil l" rubber hose.\* wheel barrow.\*

5 gal. cans tar.\* 100 feet No. 8 (?) B&S) copper cable."

8 shovels.\* 2 piaks.\*

1 post hole digger.\* 1 ax.\* 1 sledge.\*

1 iron pot.\* extra Sprague standard. s.

box No. 4 Yale. s. 3 boxes (Nos. 1. 2. & 3) of sumplies. (See detail list for contents).

l iron assoline tank.

Long box No. 1. 1000' No. 14 B&S RC wire. 500' No. 14 B&B twin cable.

1 spool signal corps wire. Assorted electric light fixtures and switches.

1000 to piano wire. Climbers.

5 lbs. putty. 2 suits oilskins.

2 double pole switches 50 taper pins - assorted.

1/2 box drop light plugs. Springfield ammunition.

Boxes to be shipped by freight.

Nos. 2 (249). 3 (77). 7 (205). 8 (631). 9 (152). 10 (215). 18 (217). 20 (315). 43 (96).

48 (75). Small box. Porcelain cleats.

Scales and set of weights. Brass door fittings. Box 4. Yale machine (storage) except

tank, base, and rack. Typewriter box No. 3. 1 nail puller

2 hangers and bearings. I orank shaft. 1 connecting rod. 4 rolls belting. 3 rolls signal corps wire. 4 spools No. 20 B&S DCC wire.

100' blasting fuse. Box No. 2. 6 globe valves.

2 6" wooden blooks. 7 1" pipe "T"s. 12 1" " couples 11 1" elbows. 13 l" nipples.

Assorted reducers and plugs. 2 pipe valves. 4 oil cooks.

25' steel cable.

2 buzz saw blades.

Sept. 24,1919.

Mr. Benny:

Will you please issue a requisition on the Transportation Service for a truck to go to New York to the transportation for the transportation for a truck to the transport of the transport of the transport of the transport

I have asked Mr. Kellow to have Rurchase Order issued for this and will request that it be delivered to you. Will you please give it to the truckmen and sak him to go to have give it to the ask for Mr. D. I. Devides on the office and get the pump, which in to be brought to Mr. Edison temorrow.

W.H.MEADOWCROFT.

1919 Submarine

## THE ALBEMARDE PAPER MEG. CO.

CAPACITY 30,000 LBS. DAILY.

"World" "Hollywood" "Reliance" Blottings.



"PHOTO FINISH WORLD"

P.O.BOX 705

CODES ABORESS. "WORLDBLOT-HIGHWOND."

CODES ABOLAND STREETING.

WESTERN UNION.

#### Richmond, Va., U.S.A.

Que to Ha gent. 29, 1919.

ir. Vm. H. Meadowbrolt, 5/5 Thomas A. Malson, Orange, N. J.

Dear Sir:-

I am in receipt of your latter of the 25th, in regard to the long fiber pure filter paper, and note that Mr. Edicon is interested in it, and thinks the atook is very good.

We haven't before us at the moment in .004 point talky paper in white stock, but I can sailing you makest of all cottom paper with fairly long fiber. In pink color, which is the thickness and weight that you require.

I mould like to have your consents on this, and if you think a paper similar to this mould be incoresting to you, we would be glad to undertake a trial the next time we are on this weight of paper, making only the pure white paper instead of the jake kande.

Yours very truly,

THE ALBEMARLS PARER MING. CO.

M. Cleroson

CDB

150

November 13,1919.

Brate Acres

Mr. H. K. Hitchcock, c/o Pittsburgh Plate Glass Co., Pittsburgh, Ps.

Dear Mr. Hitchcock:

Hr. Edison has asked me to write and say to you that he hus found a use for plate glass discs of the dimensions and to the specifications shown in the enclosed sketch.

He says that he will want several hundred at one, and would like you to ask your secole for the best price and quickest time of delivery.

He is in a great hurry for this information, and I shall look forward to your reply with much interest.

Yours very truly,

Assistant to Mr. Edison.

Enclosure.

#### [ATTACHMENT/ENCLOSURE]

Lay we have found a use for plate glows direct

10 of chander of 3/8 lick
ground on Edger to the
decariles of the
Cawer on 6 oth
Dwefrees of fort
Meccle want acount
hundred at once
please wish your fack,
price a true of delivery

Pittsburgh Plate Glass Company.
Trick Ruiling

30.50 Michigan Gittsburgh Bal, 1001. 14, 1919.

H

My dear Mr. Meadowcroft:

I beg to acknowledge your letter of Hovember 18th with enclosure, and in reply would say that the cost of these discs would depend entirely upon the degree of accuracy which you require for this work. We have no speratus for making this sort of a disc; the nearest thing which we have would be a mechine which we use for grinding port light for Ships.

to be suprovime toly plane. I imagine from this that a good quality of plate glass would be sufficiently secure for this purpose. However, if this had to be optically plain, the cost would be greater to manufacture these discs, here to fit up special, to know the fact when the plane of the purpose the second of the second to the second to the degree of accuracy required in regard to the angle of the edge and the radius on the corners.

produce one with the apparatus which we now have at once for you, and I will have an estimate made of the cost of rocking in the same on a larger scale, although naturally we would have to figure into this the cost of the initial machine for making the discs. Of course, we do gain dose that look like the one in the drawing, for each of gain which are the cone in the drawing, for the gain company and this is done by simply cutting the class cutton of glass from an ordinary ploce and the same that the course of the same and the same will be same to the same and the same will be same to the same and the same will be same to the same to the same would be produced quickly and comparatively cheaply, but the beval would be proved and the same would not be round, only approximately round.

If you will advise me as to your wishes, I will be glad to use my best endeavor to get you prompt action.

Yours very truly,

Mr. William Headowcroft, c/o Thomas A. Edison, Orange, N.J.

Than ordered a sampace on

it mile to formuded as seen as

#### [ATTACHMENT/ENCLOSURE]

Nov. 14, 1919.

#### Mr. Higgins:

of a disc Mr. Edison to very enrices to get in a hurry. I would greatly appreciate it if you could get one of these made and turned up true on the meahine that is used for making port lights, and forgard to him at the earliest pos-able moment.

a great deal of work for us in his laboratory in connection with our perabolic mirror work, and I think it is up to us to furnish him this disc at once without charge, reciprocating for the many things he did for us.

Thanking you for giving this your prompt attention, I remain

Yours very truly,

H. K. HO Octhology & Peate Gian glass Cut out & brevaked by Granding bevel peed not be Your Newark Draker but of your but our line of deliverydeal andal

# Pittsburgh Plate Glass Company. Friek Quilting Gittsburgh, Ga; 100. 17,1919.

H.B.HIGGINS.

Mr. Thos. H. Mison. Orange, N.J.

Dear Sir:-

We desire to acknowledge your order for a disc, which is to be furnished according to sketch, through our Mr. Hitchcock, and assure you everything will

be done to expedite delivery of this disc to you.

Sincerely yours,



## WESTERN UNION

\_\_\_\_\_

Pe	em 1206
Receiver's No	
Check	
Time Flied	

Send the following message, subject to the terms on back hereof, which are hereby agreed to

PITTSBURGE PA. NOV 25,1919

TWOMAS A. HDISON INC.

CARROT FURNISH GLASS DISC THERE RIGHTH INC THICK WITH AN ALLOWANCE OF ORLY ONE SIXTYPOURTH INCH OVER OR UNDER ON TRICKNESS MUST HAVE ALLOWANCE OF ORE TRICKTSECOED INCH OVER OR UNDER FOR PROMPTEDLIVENT.

PITTEBURGH PLATE GLASS CO.

 $d_i$ 

Mr. Edwar says right.

auswered

All right - we can

give you allowance of one thinky second wich over or

under - Peuch order all you a but Portal pp. Theo a Edwin 1/15/19 - Som

morrin Climase Boiler Co all tibes complete Erricled within old Case a found ation at Brange for 250 HP 19pe, Jules 9.67.25 each Central Drum 1400 to 1500 Exection 500 to \$600

#### Edison General File Series 1919. Exhibitions [not selected] (E-19-31)

This folder contains correspondence and other documents relating to industrial exhibitions and trade fairs in which Edison participated or was invited to participate but declined. The items for 1919 pertain primarily to an exhibition by the American Physical Society of instruments and technologies applicable to military problems.

## Edison General File Series 1919, Family (E-19-32)

This folder contains correspondence and other documents relating to Gloison's family. Many of the selected items for 1919 pertain to the financial situation of Mrs. Ada Elliott of Detroit, an aged and impoverished distant relative whom Edison was supporting with a weekly stipend of ten dollars. Also included is correspondence with Edison's cousin Nancy Elizabeth (Lizzie) Wadsworth and her daughter Marietta E. Wadsworth regarding repairs to the inventor's childhood home in Milan, Ohio. In addition, there is a letter from Richard C. Maclaurin, president of the Massachusetts institute of Technology, concerning youngest son Theodore Edison's matriculation at MIT; a request to the West Orange Police Dept. for a permit allowing Theodore to carry a revolver, a request by son William L. Edison for battery cells; and a letter of recommendation written by Edison on behalf of his wife's nephew Lewis Miller.

Approximately 80 percent of the documents have been selected. The unselected material includes inquiries about relatives marked "no are or bearing Edison marginalia indicating that he did not know or remember anything about the person in question; correspondence about unpaid medical bills; documents relating to the recovery of duties paid by Mina Miller Edison on a trip to Alberta, Canada; and Items concerning Thomas A. Edison, Jr. business dealings, in which the elder Edison was not personally involved.

J.nuary 8,1919.

Mrs. Lizzie Wadsworth,

Milan, Ohio.

Dear Mrs. Wadsworth:

Mr. Edison has received a memorandum stating that the following repairs are needed for the Milen home, namely.:

- 1. Point up all brick and stone work.
- 2. Examine shingle roof. Probably a new one will be needed.
- 3. Fix up openings over the doors.
- The rear wall over the cellar door needs examination and the bricks, where bulged, reset.
- Examine cracks over and around all doors and windows and repair if necessary.
- 6. Repair the old chimney.

En. Edison wishes me to ask you to have all this work done and send the bill or bill: to him. Perhaps it would be well to get an estimate first so that you will have some check on the expense.

Yours very truly,

Assistant to Mr. Edison.

TAE - Family

January 15,1919.

Chief of Police, West Orange, N.J.

Dear Sir:-

Our son, Theodore E. Edison, wishes to obtain a permit to carry's revolver. He tells us that you require the permission of his perents, and we hereby signify our consent thereto.

Yours very truly.

Thilan Eni Co. Ohis
They dear the Meadowerft.

(6420) When your letter
of deptember the 2th was received, I sent for the painter to broke over the house. after broking the place over, he advised waiting until spring as the brick hate not been painted in fifteen years and are full of mietur, they will not hold the paint they will need warm Sun

shingle perhap by spring and wind to dry them out. we whay he able to but of Mr. Frank Keller ( the painter) doubt Et. What kind of a my said that a hard frost would spoil thement, he could not would it be best to get, if the do anything about the place shingles could not be had? until the last of betober, but Will ask the men to give an said he would start the estimate of the nork! Will do work in april. This Throkeller the very best I can about ri considered a first class norkman, and very honorable seeing that the work is done. They dear mother is feeling her years, who will be eight fine mother has had the roof next month ) she defende on patched a number of times, but it is beyond patching mon. It is impassible to get me to attend to every thing both inside and out of the

house. This is a dear little. house, and me do enjoy livein it. Your Sincerely Marietta E. Wadenorth James with your Mr. Edwon In accordance make. Menouveroft, Jallher get begant above in reply!

Jacob Congratation low on getting Manny of the Consume that she was an Elicon are shown on What will make the promise of the state of t Thos. a. Cadisor 6512 being a second low married, and my husband wanted know it Iwas says he got indigestion was in Vienna, and I from reading anarticle lin a newspaper rome am real proud to be a relative of so great time ago intitled Thos. a man as you. a Edison Zon ug at Levennow mo, Edward hope ty? Of course of said you won't think me The Codisons were too Goward in writing. industrious to take I hope you will find their time to eat, my time to read my letter. name being Edwin Van fuct twenty and before I was married. my hilby says I am You know my father phetty. 1 was form in the same house as your father

Wishing you long years of health and happiness your cousin. Gladys Elliott. true Edisons 10/ Gladstone ave

February 8, 1919.

Mrn. Cladys Elliott, 107 Gladatone Ave. St. Thomas, Ont.

Deer Brs. Elliott:

Hr. Edison received your letter of Pebruary 4th. He is just about to leave for Floride dnd wishes me to send you his congretulations upon your marriage, and he hopes you will have many yours of happiness.

He thinks it is curious that you was formerly an Edison and are now on Elliott, as his mother's maiden nome was Proy Elliott.

Yours very truly,

Assistant to Er. Edison.

A/6512.

Medecast to seed a water of an according to seed a metal 25 amberd 35 metal 25 amberd 30. R. F. D. #1, Box 390, San Gabriel, Calif.
April 7, 1919.

Mr. Thomas A. Edison, Orange, New Jersey,

Dear Sire

It has occurred to me that you might be interested to hear about your cousin, Mr. Frank Edison, who was born at Yienna, Caneda a son of Mr. Snow Edison. I am one of his neighbors, my place almost adjoining his, and I have offered towrite for him as he is ho most adjoining mis, and i nave offered to write for him as he is all longer able to write for himself. He says he has written you a number of times during the last some years but has never received reply from you, and I have suggested that perhaps it was bouched failed to mark the envelope "Personal" and that perhaps are never reached you. His address is R, F, D, #1, Box 386, San Gabriel.

When you were last out here on the coast he was unable to go in to see you, not being at all well even then, and moreover he had no way to get down to the place where you were stopping. His health has been failing radually for the last few years and some menths ago he had a paralytic stroke which renders him now unable to walk or get about, and he is also unable to read or write, and as he sits in his room trying to while away the time he often thinks how much he would enjoy a Phonograph, a disk machine, and we would all like so much to see him have it and get what pleasure he can out of it, as well as the help and inspiration there is in many of those beautiful records.

Mr. Edison tells me that Eliza White Stoddard, also a cousin of yours, from Milam, Ohio, was out here ten years ago, and that he understood through her that you nad given each of the relatives a phonograph, but that he, not having asked for one yet, probably was overlooked.

Dr. Thos. Matthews has been caring for Mr. Edison since his stroke, and Mr. De Lancy, his neighbor on the left helps to put him in bed at night. My husband goes over to see Mr. Edison every day and says he is sure that one of your phonographs would turn many a lonely hour into a pleasant one for him if he only had one soon,

I am going to take this letter over to Mr. Edison before mailing it and have him try to sign his name at the bottom so you may be sure that it is with his approval that I write.

Trusting we may hear from you soon, and thanking you in advance for same. I am

Frank Ellen

Glose Remember lamines in him has blok.

You sould go how many the horse with the horse have been a feel and have been a feel for many the horse have been a feel for many the horse have been a feel for many the horse have been a feel for horse have been many to have been a feel for horse had been a feel for horse ha M. Edwer ner Lleones a Edison Dear In u chankyou for your Rudy assist ice my live of trauble I Can fully. He was so su

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Kindly let one know as soon as of Sanducky and furnish askertor Cement Chingles and put possible your very demarely Them on for about me hundred Th. E. Wadenoutte and fire five dollare. I orepain on the one are muded, it will be Enila. Thelan ohis There is a Asphalt shingle made by the Henry or Thillhouse The painter will give the out who of South (bend of Indiana, it is of the house me coale of paint, very good so I am Forti. It has been alwort impossible get a man IT repair chimney, point up all brick and stone mok, To get mork of any Kind done, rest bricke over cellar door, and do the carpenter work, for about here, until lately. The properte mo hundred dollar, or it possibly are brighter mon! M.E. W. may be a lette more. of the Edison prefer another kind of their, Smbler Pa. Ashestos State + Sheathing W

Alfred Schnurr
CONTRACTOR AND BUILDER

1013 W. JEFFERSON STR

Ambler Pa.

natural Color pert

SANDUSKY. OHIO. or rod \$ /5500 Moh. 31, 1919.

Natural color muld out look well-

almost white \$135.00

Secretarial Service Department
THOMAS A. EDISON, PERSONAL

FERDUNAL

Function: Thomas A. Edison, Private. SUBJECT: Wrs. Ada Elliott. Memorandum No. 452

Date May 1, 1919.

•

Mr. William Maxwell,

You will recall that last October you arranged with Mr. Faul, of Detroit, to investigate the case of Mrs. Ada Elliott, an aged lady living in that city who claims to be distantly rolated to Mr. Edison, who had appealed to Mr. Edison for assistance. Mr. Edison has been remitting (10. weekly to Mrs. Elliott stace last November. If it will not be too much trouble, I should like to check up the case.

T should like to know:

1 .- If Mrs. Elliott is comfortable where she is at present.

2.- Whether the persons with thom she is living (I have not the mems) are in any way under obligations to care for and support her and if they are able and willing to do so. If not, no doubt she is dependent entirely upon Mr. Dilson's romitteness for her support.

5. Whether it is not likely that she would be more contrable in a home for aged people and if so, the name of such hase and the charge for taking in and caring for her for the remainder of her life. Her Elliott states that she in 77 years of age. This matter, of course, if mentioned to Hrs. Elliott should be handled delicately, as you will understand.

The address is Mrs. Ada Elliott, #69 Sturdivan Avenue, H.P. Detroit, Michigan.

If, you can help me out in this, I will appreciate it very much.

Yours for the Victory Liberty Loan,

R. W. Kellow.

Secretary.

ppies to:- Roll Arthurst

1533-3-50-10-18

May 5,1919.

Miss E. E. Wadsworth, Milan, Ohio.

My dear Liss Wadsworth:

I have received your letter of April 28th and showed it to Mr. Adison. He says that he would like to have the asbestes commont shingles used, and for you to sive orders common to the shingles are necessary and send the bills to have the shift of the sh

With kind regards, I remain,

Yours sincerely,

Assistant to Mr. Edison.

A/7092.

Attached is letter from Mr. R. B. Alling, one of Mr. Maxwell's friends from Detroit, reporting on his investigation of the case of Mrs. Ada Elliott; who is reported to be a distant relative of yours.

You are now sending Mrs. Elliott \$10.00 per week, but stated that you might wish to cut this on or about the 1st of May.

I thought it likely that Mrs. Elliott might be admitted to a home for aged people, to be taken care of for the balance of her life at a fixed sum. Cost of living in the Arnold Home, as reported by Mr. Alling, would be \$360.00 per year for the wards and \$420.00 a year for the private rooms, which is less considerably than \$10.00 per week.

What are your wishes as to the future?

dera colice as a

## [ATTACHMENT/ENCLOSURE]

## THE PHONOGRAPH COMPANY OF DETROIT

EXCLUSIVE EDISON DISTRIBUTORS

256 WOODWARD AVENUE

DETROIT

May 17, 1919.

William Maxwell, Thomas A. Edison, Inc., Orange, N. J.

Dear Mr. Maxwell:

Pursuant with your letter of the 5th regarding Mrs. Ada Elliott. I have investigated and along the lines of Mr. Kellow's request, report as follows:

- 1. Mrs. Elliott is now living at 69 Surtevent Avenue, Highland Park, Michigan.
- vit whose like is been the name of the party with whose hee is becarding, but amperently there is no obligation on their part to take care of her and are taking her in as a regular boarder for so much per week. From my conversation with her, she is entirely dependent on IM. Edison's remittences.
- 5. I would imagine that she would be more comfortable in a home for aged people and yesterday want out to the Arnold Home on Seldon Avenue, which om my mind would be a very excellent home for her if Mr. Edison cares to send her there and if she mants to go. The cost of this Home is 350 a month in the wards and 355 a month in a private room. This ods covers room, beard and laundry.
- 4. Mrs. Elliott appears to be a very bright lady but one who has suffered a great many reverses in life.

If I can do anything or be of any assistance in any way, I would be only too mleased to do so, or if there is any further information that you want, don't hesitate to ask.

Ellon. RBA-ET

Very Auly yours,

Ky dear friend in Edward will all you a fiew lines to let you no how I am geling a long this hat weather is hard on me I can't do one work for them now swyme see my check onely satisfies them am so thankful to for for itdon't think you would let me go low the Rover house would afour cant make any litell comforts

my any I ask you if you wold for my self I dont complain let me have that wish granted as I said am thankful I am to me I am unapel to dwitnot in the Ken hour from my self she would have to be your good hart and Kinchnes raced, another grave got for me to one a young man called on they will alow for the grave me a frew weeks a go I dident-Something that - The now lay in say much to him was dry down at the line of her death they Rased harted have no one to skeek to be a way so fast-it- is all fileed in of I could have it done wile I strangers now since my dear gool ame some here it-world be a grateis you you can imagin how lovely allief to me 6 low grateful I wold he for it to Mr I will he laid beginher my clear friend of am arking it is fore me of my age to bee to my dear friend om Edeson to much tell me of I cant tell I am going to send you the cand up her bered blace I dearly me work think hard of your would like to be laid he side her but famt of my self you have done so much for me

will you please rile - him me soon they are now working in the gemelengs as you no in the sking is wen they make the Changes if I shouldent ask this Klease let- me mills a soroyething to be in the way that - Sam of their is any question about on listen you would like to no ask I will be true tu ansure you I am yy the 16 of august-was born will for Blease maure me som wat ever you say will take it all right have nothing to back me but my werd if you will please grant me that wish of you will reaso thankful to your let me no will be no thankful to your let me be distributed my dear mes add with

June 5 1919

Mrs. Ada Elliott, 69 Sturtevent Ave., Highland Park, Mich.

Dear Madam:

Mr. Edison received your letter of June lst, and he wishes me to sak what would be the entire expense of making arrangements to provide for your interfment in the same grave with your daughter.

Please find out full particulars of this and let me know. The card of the Woodmere Cemetery, which you enclosed with your letter, is enclosed herewith.

Yours very truly,

Assistant to Mr. Edison.

Enclosure.

June 18. 1515 &

Detroit- micht

68 sturtenent auch H. H

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Our Solver will were from me of free lines to bet your me of received your welcom beter and to say it is the welco havent him abel to get out to the semeting as yet. Last welk been was a think can should be founded not any this week bound of the let have yet out out on account of the lets hall I will be the let week I will be the lets week I we

abind for maleis and I do so mucht - the water your Kindney I teleponed out but all I could finde out was wat it wold bush- for a half lat that is 2 graves will have to go out to get all Particular and will send you Proper Patters to Show all 2 graves will cost of be dolers will be a lowed something for avising and being my dear girl a gain will let you moult next welle wen I am belir am very merceaus to day my dear friend yours very bruley ours ada Elliott

June 27,1919.

Mrs. Ada Elliott, 69 Sturtevant Ave., Detroit, Mich.

Dear Madam:

of June 23d, together with a statement from the Woodmere Cemetary Association. In: 23 son does not quite understand it yet. Will you please answer the following questions. Einally waste your answer opposite the questions on this sheet of paper and return it to mo.

 Is the lot mentioned on the enclosed statement the one that you wish Mr. Edison to buy?

Is your daughter in another lot in the same cemetary?

3, Is it your desire to move your daugness's body to this new lot and have room left so that you may be buried in this same lot later on?

4. Does the \$60 cover all the expenses?

Yours truly,

Assistant to Mr. Edison.

1919 TAE- Pars



Day Theath him for his letter Charles has Twined out to be a gase

Dear Mr. Edison: Cocucana man than traleaved of him.

I have learned with much interpretalike transla without it is the state of the st

that you are soming another boy to this Institute.
When Charlie was here he of the arms is hill in hilly
when Charlie was here he had been about the control of the control

With kind regards, I am,
...
Yours sincerely,

Queland & maclaurin

June 30, 1919.

Mr. Thomas A. Edison, West Orange, N. J. Jeholt mich 18 July July July July July 7.18.18

July 18.18

Allow He Boule he sent me to answe the guestions he asked them and sent it back last monday them and sent it back last monday the modern thanked it may be me answe manked them but I new answe that your mank it right please let me my accuracy of a check the monances with many chanks it was allowed in one of pullet many allowed it monances with many chanks it in one of please let me my offered the monances with many chanks it

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July 25.1515

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I so much needed could met get

onely for that Kindnes from you my dear friend will have some money to call my own will get my lader friend to take me

to Rulen bay for a boat - rich y havent ben and for years only wan bit wont cost onely a dolor and return will be a days chang for me and will have some money left to call my own I love you and

your dear Kindnes to think of me , on you have got a good hart I sufered a lot last winter with cold for want of warm close I bouldent will you for only more you was doing so much for me For Kindnes I will never forget so thind to me in mon, but I will have my mind wend lay kind would from some one

my head down for the last time to tell them west too Buy he you and thank you for your Kindenes

to me their was a sorousful that in my hart lust times that would have ben my dear girls birthday as december I was left a lone to take

wat I could get on that day it shoes you wat hart some Revket have get ween you are in hard luck I sutty my children until the last on was gon have laid 4 away and

now a lone its - Kiting hard dear Mr Edison will say again 1. love you and your Kindnes to me of ? bould see you could tell you beter how Hunkful om and your secrety sheeks, so thend to me in those from you get

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## THOMAS A. EDISON

ORANGE, N.J. July 30, 1919.

Mrs. Ada Elliott, 69 Sturtevant Ave., Highland Park, Detroit, Hichigan.

Dear Mrs. Elliott:

Answering your letter of July 28th, I wrote you on July 25th returning the papers regarding the lot in cemetary and sending you hr. Edison's check for \$50. for spending money. I hope you have received all of these papers by this time. If not won't you kindly write me immediately?

Yours very truly,

Šecretary.

RWK-fs

o got the Aseck and taken allright their wasent and return poweloke in this leter

thanks

this ada Ellite

Copy of letter from Mrs. Ada Elliott, the original of thich is attached to voucher in accounts of Thomas A. Riison, Private, bearing instructions of Mr. Edison to send Mrs. Elliott (50 for spending money.

> Dotrott, Mich., 69 Sturtevant Avenue, Highlahnd Park.

My dear friend Mr. Edison:-

Will send you all of the papers that you may see all is right. I
must you to know. Don't know how to express squelf to you to tell you how
thunkful I on to know I can be laid beat on my dear girl through your kindness.
It never could have been done other than through your kndness. A lady fitted
took mo out to the cometery. I saw the raisod and placed in the new grave,
and know it is all right. I saw the last shovelful of earth thrown over her.
It was a sad day for me. It was just into months on that day since she was laid theore. She passed away on the 14th of October; was laid away on 16th October.

I feel now that I will be satisfied to be laid beside her themover the time may be allotted for me. It is very hard to live in proverty and her no one to speak to but strangers. They haven't got much heart for all old person here, always ready to grad the allowance my dear friedd ir. Elicon sends me. Dear, kindhearted man he has been to me.

You will please send the popers back to mo.

From Mrs. Ada Elliott.

Many. many thanks.

Day I caring trements Brisla. This, has mother should an timeta any 3-19 in 3thorous office left many descendents sport age lay. Block of the art the object of the art of the should are should be and the there are should be the are seen provided to mile to fore for some thank to fore for some them to fore for some thanks of fore for some them to fore for some times, as farm very much interested in your notes husband and family and fore the foreign the foreign to the foreign the foreign to t

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so me han his piction on a family wagne milli are
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all neones but would My Mother has and it for a no of me and it muld be a great compost like a setter one of Eo me. to know, if Who him. If you have any Edison remaindered her onlation or riof to apare would surely give it the rist pluce in m have an Edison

our home word dis letter meli mili joins opporte and joint think to morte while, much like rengement. Co hear from aportpersonally anclose this bille pickin our labert from daughting. "Brosin Ellieb Hilliams. go think on han the friest stock in His cousin, Jour millignotorspert, Mrs. C. E. Williams. Bristol. His. Box 36. -

Detrict Mich & wagnest 8,1818

69. Stantiment and Houle Hilland Houle my deanest prince a fill drop open a few lines to explain the fotoes of an sending ofour my husbands the ton fotoes are my husbands father and mother the 2 in the case is my husband and my self the next day after we wan mailed by years ago in odopen phase changed alot

how can I thank you a nough in that lime have seen a well dear mu Edison V se wain lat of hard luck with to now my ford gave a diner on the I am geting your Kind hartednes hudson siven & gentelmen and it makes it belie a weke from your mame is included and Richines to day o will be .77. I hake you I cut it out of the news will be shared after me some time wat wold 's do now yo why bouldent apour come to was left to my self now at debroit - and see your friends that age 1) hake and thay I want-I would dearly like to see the be on one els to ask for Kindnes that is doing this Kundnes for Leke you don't blane for saying me will take my little bill doo I love you for your Kindnes to Kutenbox supet weke all is well to one you don't know wat ? deler my Edison with all restlect have gon through with jet am am deling nervous 32 all a lone in the world but um so thankful he you for your Kindnes. mrs ada Elliott

those Richines are habel.

70. years old fadedalutt my husbands jorst name was for a followth

M. Edison - ff W. Dethaps you wied like to read attacked.

letter from Mrs. ala Elioto, of Detroit, whom you resent.

Ly sent \$50 for spending money.

Leceow Field

## [ATTACHMENT/ENCLOSURE]

Detipit Much

august: 14/5/5

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# [ATTACHMENT/ENCLOSURE]

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7AE-Family

Sept. 5,1919.

#### Miss Marietta E. Wadsworth, Edison Homestead, Milan, Ohio.

My dear Miss Wadsworth:

of August 25th, together with the verious bills for regarder or the best of the the verious bills for regarder or the best of the the verious bills for the contract of the best of the be

I am very glad to learn that these repairs have been made so satisfactorily.

With kind regards, I remain,

Yours very truly,

Assistant to Mr. Edison.

September 11,1919

Er. Thomas A Edison:

Referring to your notation on the attached regarding Mrs. Elliott, I am not sure that I made this matter clear to you.

Out of the \$10 per week you are sending Mrs. Elliott, she would pay \$8.00 per week, under her proposed arrangement for her room and will have only \$2.00 left for olothing, food, etc. I think her letter was intended as a mild hint to you that the allowance would be imadequate for her new plan.

nontioned to you, the glob, per week, which would spun give por per your, would pay for a private room in the Home and leave \$100 a year, or approximately \$2.00 miles with \$100 miles and heave \$100 a year, or approximately \$2.00 miles \$100 mi

Perhaps you do not like to have it suggested to Mrs. Elliott that she should enter this home and if not I will, if you wish it, simply answer her letter in your behalf, stating that you will continue the job weekly until further notice, in which case she will have to work out the details as best she can.

I dannot underschand here who system before I vent money, who might not leke to Enter a home, penturps you better manare the sum to \$12 ker week with further

## [ATTACHMENT/ENCLOSURE]

Memorandum No.

Date Sept. 10,1919

Ar. Thomas A Edison:

Attached is letter dated September 2nd from Ers. Ada

Elliott of Detroit, which for your convenience, since it is rather poorly written. I am copying below:

> Detroit, Mich. Sentember 2,1919

"My dear Friend Mr. Edison: Received my check today Tuesday (Regular Weekly

(10.) 1st was Labour Day, no delivery, with many thanks to you. Will have to change my place, they want their room now. I will have to get a room where I can do a little cooking for myself. It will cost me 38 a week for a room of that kind. Everything is awfully high here and it is the only thing for me to do now. I will have 22. left. Don't take much for me to live on, am very plain, don't expect luxuries, am glad to get anything the rest of my days. Only for you, where would I be. You don't know how

thankful I am to you and how I appreciate your kindness. The cold winter coming on it makes me shiver to think of it. When on my little trip to Rutenburg, had a nice time, didn't spend all of my check you sent me (350 sent for spending money | have some yet to call my own, thanks to you for it my dear friend.

Will let you know when I make the change, it is awful hard to get a room here when people are in poverty, no one wants thom, on how I wish I could see you. Well, with love for your withindnesses to me.

Did you receive the photo's I sent you ? Please let me kmow. Yours truly and thanks

(signed) Mrs. Ada Elliott."

From the investigation made by one of Mr. Maxwell's friends in

Detroit, it would seem that Mrs. Elliott is entirely dependent upon the \$10. per week you have been sending her. I do not know how she expects to subsist on \$2. per week after paying the \$8. per week room rent she mentions. Copies to:-(00er)

1533-1-750-10-18

## [ATTACHMENT/ENCLOSURE]

Lr. Thomas A Edison

-2-

September 10,1919

If you wish to continue the support of ire. Elliott, do you think it might be well to have some one of ir. Enzwell's friends take up with her the matter of entering an Old Ludies Home ? I had this up last they for you and found from the gouldean whom ir. Enzwell asked to investigate the case, that the Arnold Home charges 500 per month in the Wards and 535 per month in a private room. This charge covering room, board and laundry. It seems to me that Ere. Elliott would be better looked after in a home of this sort than she can look after horself.

You	now	give ;	10	per v	100)	or			Ç520.	per	year.
<b>\$30</b>	per	month	in	ward	at	Arnold	Home	equals	360.	н	"
<b>3</b> 35				room	11		"		420.	"	**

The same amount as now given would cover lodging, board and laundry in Arnold Home and leave \$100 or \$150 per year (depending upon whether ward or room were occupied) for clothing and incidentals.

R W KMLLOW

Luciary

Debroit - Mich

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Octobor 31, 1919.

Mrs. C. E. Williams, Box No. 36, Bristol, Wisconsin.

Dear Madam:

I will ask you to kindly pardon the dolay in replying to your note of August 3. The letter was mislaid and has just come to my attention.

I would says in answer to your question that I cannot remember your "other. I had an Uncle in Illinois who left many descendants, and perhaps your "other is one of them.

Hison Phonograph in your home, and that it is giving you much pleasure. I trust-you may have the enjoyment of good music for many years to come.

Yours very truly,

Drumbo Orfario 1919 TARE-Drumbo. nov. 5-16-1919. Mr. Thos a. Edison Dope som Dear Sir; -

a distant connection of yours. I am a great grand daughter of Elder Elliott. Iny grandfallers name David Elliott. How I should love to wait you and see all your wonderful inventions. I always count you one of the cleverest of men house and proud shat I have a mee 6.4 of the same blood in my veens as you have. I have long wished I had a. diamond disk machine. It will end in a mah likely. my husband died about a yor ago I am forty yor old and since he left me I have been very mustited. Hope they may brighten up for me I would be very happy of you would write to me so that I could say I had a letter from the world

renowned Mr. Edison. you will not mind unting surely for I shall certainly be much elated if you do. There are very few of the Elliotto left soon all will have passed into that great beyond yours sweenly. Mrs. Lillian Hunter.

4

Movember 11, 1919.

Mrs. Lillian Hunter, Drumbo, Ontario, Canada,

Dear Mrs. Hunter:

Your note of Hovember 5 has been received and read with interest. As you say you are an Elliott, I would like to ask whether you know the ages of David Elliott's brothers and sisters at the time of their respective deaths. If you do not know, could you find onty

I visited David Elliott when I was a boy
7 years of age. He lived up on a mill at some place around Yienna,
Canada, My mother was a daughter of one of David Elliott's borthers,
1 shall take pleasure in sending you an

Amberola instrument and some records when I hear from you in reply to this letter, as I am not certain whether or not Drumbo, Ontario is your correct address.

Yours very truly,

Ediphoned: 24

1919 THE - 2 miny

November 12,1919.

Mr. C. E. Sholes:

Mr. Edison's son, William L. Edison, whose address is Hillop, Morristown, N.J. has asked his Father for enough storage cells to give him 32 volts for what he cells a "Standby Battery".

Mr. Elison has requested me to ask you to send his son, say 26 A-4 cells out of your stock of returned cells, that is to say, cells which we here taken buck from oursomers or which have been sent back, and which connot be reshipped as new cells.

Will you kindly give instructions to have this shipment made, charging same to Mr. Edison personally at the proper valuation of these cells.

W. H. MEADOW CROFT.

## [ATTACHMENT/ENCLOSURE]

Mentional Just enough to give me 32 Volto.

Welliam

Whiletop

Mentional Whiletop

Mountain cello do you

want - S

yours in regards to botteries received

TAE-family Mr. Thomas A. Edison, East Orange, New Jersey. Dear Sir: We have just employed Mr. Lewis Miller to sta with us in the bond business, with the idea of becoming a salesman. Mr. Miller has referred us to you for a general reference as to his character and ability and we would appreciate your frank advices as to what your opinion of him is. possible, in his development with us, we would especially appreciate any information that you can give us that would help us in this connection. Thanking you in advance for a reply, which will be treated in strict confidence, we are Yours very truly, EQ:MF

My Selivit - March Co My Clean Am Kellow Just - accincted the 24/5/18 from any clean am Ecliests Kindness will soon he out of this blace they way I have but mocked a bout-since I lost on clean girl it is to king ful to tell I hope I will be felar of wen I get moment its one be a week more then you will have my new advess till in Edicion I much a lade he went to school with

the lives down their wain; am going to live it on fruth and Plum the lading chance was smith she will be a nation to the she said she is Pleased that me placed and hind hi me they all my in circumstances their arte to you a gain on going down homeon will get by one address went they for me new flace will be not my form the will know with a son for my going will be glad to get them if I love to the con one head a day am are moved there they is the could also the con one head a day am are moved there is no prime will all again be the in love to specification will all again be the in love and a fillistic

December 2,1919.

Halsey, Stuart & Co., 49 Wall Street. New York, N.Y.

Gentlemen:

Replying to your recent letter in regard to Mr. Lewis Miller, let me say that he is a nephew of my wife's and this is his first business venture.

He was out in service for Uncle Sam during the recent war, and was made Captain of Field Artillery.

He is a young man of fine character and sterling qualities, and I think he will most likely make good in the work he has undertaken.

Yours very truly,

.A/8321.

1/5/20

THOMAS A. EDISON, PERSONAL.

#### Office of Secretary

December 20th,1919

Mr. William Maxwell:

Phonograph Company of Detroit, a report regarding the ofremataness of a lime. As Alling of the a distant relative of lim. Edison's who lives in Petroit. B. A. Alling most avery complete report which we were very glad to get. I am returning the original of it which you sent to me herest it, so that you may refree your memory of the diromatanes.

monording to hor letture, a confortable room with light househooping facilities. Severes, she is seventy seven years old, is troubled with light househooping facilities. Severes, she is seventy seven years old, is troubled with rhemantism and in her various letters to the Zidison complains of ionitiess. Nor daughter died a few years age and she has to look out for horself. I have appeared to the look of the complains of the complaint of the com

would it be asking too much of it. Alling to request him to look up lire. Elliott again, find out how she is located and broach to her very tenderly the matter of entering the Arnold Nome. If he thinks this is a somewhat human institution. I should like also to have him verify the cost of maintaining her in this home. If heals will kindly do so.

provided the is willing that three Millort should enter this himse, provided the is willing to do so. Ne wides the matter handled every delicately as he does not with her to foul in any say that he wishes to exert any pressure toward her enterge. She would not have to feel that the was a subject of charty as the homes would of course, be paid for her keepings. It suppose she would have proper modical attention when it was needed and that the would no doubt be able to make friends enough the other persons living at the home and so be very much more comfortable than she would be living as she is. I feel sure that ir. Alling could present this matter to hor in such a way that she would not feel hurt and so as not to make her feel that she is in any way obligated to enter

Can you get this information for Mr. Edison ?

B A KELTOR

Secretary

Kellow Mr. R. B. Alling, The Phonograph Company of Detroit, 256 Woodward Avenue, Detroit, Michigan. Dear Mr. Alling: You will recall that last May you were good enough to make an investigation for Mr. Edia a concorning Mrs. Ada Silliott, who at that the wea Living at 69 Sturtevant Avenue, Highland Park, but is at present reported to reside at 225 Third Street, Detroit. It saoms to Mr. Kellow that Mrs. Ellictt would perhaps be better off if she were admitted to the Arnold enemes, as suggested by you in your letter of 17 May. I enclose memorandum from Mr. Kellow and I am wondering whether you would be willing again to see Mrs. Elliott and ascertain whether she would be favorable to entering the Arnold Home. We are sorry to trouble you, but I feel sure you will appreciate Mr. Edison's position in the matter. Yours faithfully, Vice President ...

## Edison General File Series 1919. Fan Mail [not selected] (E-19-33)

This folder contains unsolicited correspondence and other documents from admirers of Edison. Many of the items received a routine acknowledgment.

#### Edison General File Series 1919, Financial (E-19-34)

This folder contains correspondence and other documents pertaining to Thomas A. Edison, Inc., and affiliated companies, as well as to Edison's personal financial interests and investments. Most of these matters were handled by Richard W. Kellow, secretary of Thomas A. Edison, Personal. Among the Items for 1919 are a summary of income, excise, and other taxes paid during the years 1914-1918; a consolidated financial statement for 1919, and interoffice communications concerning the financial situation of the Wisconsin Cabinet & Panel Co. and the Edison Portland Cement Co.

Approximately 20 percent of the documents have been selected. The unselected material includes copies of internal accounting instructions and policies; documents about interest on bonds, such as Liberty Loans; and communications about stock certificates and biling arrangements between Thomas A. Edison, Personal and Thomas A. Edison, Inc.

Attobar Ha

STATEMENT MAY 5. 1919

# TAXES PAID

	1914	1915	1916	1917	1918	
Excise	Hone	None	None	None	None	
Income	None	6,971.69	57,256.78	6,607,98	4.000.00	
Excoss	None	None	None	1,476.89	None None	
Capital	Stock None	None	None	None		
State	None	None	None	Hone	None	
Roal Es	tate 2.089.21	2,660.38	7,361,55	2,315.69	910.53	
Personal	•	636.00	2,366,00	5,925,00	None	
10100	2.779.21	10.268.07	66,984,33	16.325.56	4,910,53	

Ingui Lent to ax hillianin by bor, \$5,0

Edison, T.A. - Personal.
Secretarial Service Department

THOMAS A. EDISON. PERSONAL

FUNCTION: Wisconsin Cabinet & Panel Co.

Memorandum No.

SUBJECT: Payment of Account.

Date July 11, 1919.

Mr. George T. Owen, C/o Wisconsin Oabinet & Panel Co., Now London, Wisconsin.

Dear George:

I wired you resterday to inquire whether or not you could settle up your account with Thomas A. Edison Personal to the amount of \$8,000.00, and laws just restried your reply, saying that one half of the July 16 belance to be paid on July 25 is the best you can do.

hope that you will kindly follow the miner way much obliged for this advice, and the monuy at that then you can use it very nicely. The Forecard Interests to time, which are rebilled, and which of course they expend to time, which are rebilled, and which of course they expect to be repeid, so that they may keep themselves in the proper francial trim. Your account has been running for a long time, as you know, and we shall appreciate the rout turne very much.

R. U. Kellow, Secretary.

Mr. Kellow:
Good Work
Mambert
Ediphoned 7/17/19.

Copies to:- Mr. Manhert (2) Mr. Miller.

1533-1-750-318

Edison, T.A. -

Secretarial Service Departmen

Office of Secretary

PUNCTION:

Mr. H.F. Miller, Treasurer.

Memorandum No. Ontober 30th-1919 Date

Referring to your telephone request of this morning for information asked for by Mr. Edison in regard to his present investment in Edison Portland Gement Company, I give you below the following figures from our accounts. We have made calculations up to the clone of Octobor.

Stock acquired for cash or other value: Preferred Shares 17.309/ Book Value 2840,277.12/ (per value \$865,450.00) Common Shares 1,607 17,236.31/ 60,350,601 369,190.96 Bonde 469 / 469.000.00 (The above shows all bonds owned but only such stock is shown as was paid for in each or other value) 29.560.00 /

Coupons paid for Coment Company Motes -

Rovember 27,1917 duo Doc. 31,1919 including accumulation items over a number of years with interest which has been compounded from year to year 32.570.231.26 · Demand Notes 839,364.14

2 Time notes discounted by Mr. Edison 115,000.60

3,524,595,40 297.300.20/

Interest Accrued and umpaid Advance during October 1919 to date to take up notes endorsed by Mr. Edison which

150.000.00

were discounted by Coment Company Open Account (exclusive of above \$150,000) including unpaid interest on demand notes

40,016.48 6,885,90

Oxford Quarry rental for 1918 and 1919 to dute Total \$5,275,162.37 Our advice from Edison Fortland Coment Company at the close of September 1919 was that ir. Edison was contingently liable upon other notes endorsed by him

in the amount of \$420,500. We know of no change in this figure during October except for \$150,000 in notes which we are informed were taken up by the advance referred to above which would reduce the contingent liability to \$270,500. We have not figured interest to the pency in making the above calculation as, for instance, we have not calculated any interest on coupons, etc. We are informed thatanother \$30,000. will be required to take up one more note during October which has been endorsed by Mr. Edison.

I hope these figures are what you require.

R W KELLOW

Secretary

## CONSOLIDATED STATEMENT

# PERSONAL INTERESTS OF THOMAS A. ELISON.

# DECEMBER 31st, 1919

	Consolidated	personal	Laboratory	Woodward	private
ASSETS Cush in Bank	150,378.97	120,141.62 150.00	19,442.03	2,547.84	8,247.48
Cash on Band accounts Receivable - Debit Balances	29,003.79 28,515.24	22,563.02	4,754.78 66.74	631.40	28.448.50 272.61
Pamily Accounts Accounts Payable - Debit Bulances Guarantee Deposit Coment Co. Norkmen's Compensation	16.000.00 3,000.00	16,000.00	2,019.85		3,000.00 12,020.07
Notes Receivable Reserve for Doubtful Accounts	211,480,99	147,673.92	22,643.72	3,179.24	37,984.11
· · · · · · · · · · · · · · · · · · ·	211,400,72				
Due from Edison Interests Thomas A. Edison, Inc. Divisions	81,299.02 15,429.16	32.60	86,493.75 16,257.86		2,563.26
Edison Phonograph Works Department Edison Storage Battery Company	12,800.51 48,417.66	7,967.73 48,417.66	5,116.45		
Edison International Corporation Rocas 100,000	160,950.00	150,9£0.00 71,882.65	1,158.51		13,311.93
Thomas A. Edison, Personal	308,986.35	279,250.64	109,426.57		15,875,20
Inventories Cost of Material & Supplies	18,792.97 67,251.85		14,733.97 67,251.85	4,059.00	
Cost of Work in Process Work in Process Adjustment Account Work in Process Contro Account	21,572.53 11,700.66 914.72	• .	21,572,53 11,766,66 914,72		
Consignments Prepayments Insurance	5,761.49	2,281.69	3,529.80		
prepayments insulated	102,526.70	2,231.69	96,236.01	4,059.00	
Interest Receivable Accrued (Railway & L.L. Bond Interest)	1,775.62	1,775.82		912.76	
Deferred Cherges Lunufacturing Expense Selling Expense	2,990.42 755.55 54.511.50	34,611.60	3,904.18	755.55	
Rebill Account					53,859.31
Total Current & Working Ausets	662,027.03	465,443,27	222,210.48	7,080.03	00,300402

Thomas A. Edison, Inc. Divisions Edison Phonograph Works Department Edison Storage Battery Company Edison Portland Coment Company		81,299,02 15,429,16 12,890.51 46,417.66	32.60 7,967.75 48,417.66	86,493.75 16,257.86 5,816.45		.01
Edison International Corporation Not Interest Thomas A. Edison, Personal		150,950.00	150,9£0.00 71,882.65	1.158.51		13,311.93
		308,986.35	279.250.64	109,426.57		15.875.20
•						
Inventories Cost of Material & Supplies Cost of Work in Process Nork in Process Adjustment Account Work in Process Contra Account Consignments Propayments Insurance	·	18,792.97 67,251.65 21,572.62 11,706.86 914.72 5,761.49	2,221.69	14,733.97 / 67,251.85 / 21,572.63   11,766.66   914.72 / 2,529.80 /	4,059.00	
3		102,526.70	2,231.69	y6,236,01	4,059.00	
and the second of the second o						
Interest Receivable Accrued (Railway & L.L. Bond Interest) Deferred Charges		1,776.62	1,770+52		912.76	
Enufacturing Expense Selling Expense Rebill Account		2,990,42 755,55 54,511,50	24,611.60	3,904.18	755.55	1
						<del></del>
Total Current & Working	A sots	662,027.03	465,443,27	222,210.48	7,080.03	53,859.31/
Hortgages Receivable Edison Storage Battery Co Long Ti	me Notes	37,000.00 1,300,000.00	25,000.00 1,200,000.00	*		2,000.00
Hotes Receivable Edison Portland Com- Plus Interest Receivable Accrued Less Interest Receivable Deferred Less Interest Credits	ont Co.5552975.40 322182.50 972744.21 41617.84	2,661,595.85 50,152.59	3,552,975.40 523,182.50 972,744.21 41,517.64	50,152,39		
Land		50,102,07		20,100,00		
Buildings Cost Amortization Suspense Reserve for Amortization	82489.40 14312.60 50061.60	68,750.40		82,469.40 14,312.60 ,051.60		
Equipment Cost Amortization Suspense Reserve for Amortization	108380.12 12159.24 69572.05	50,967.28		108,380.12 12,169.24 6J,£72.00		
Automobiles Other Equipment Reserve for Amertization	25217.26 107672.02 91750.40	41,182.98	25,217.36 107,672.02 91,756.40			
Investment Stocks & Bonds R.R. & Other Cutside Co's. Edison Interests Interest Receivable Accrued	298672.28 6966713.39 28266.20		298,672.28 6,965,713.39 28,366.20			
(Edison Portland Coment Borns) Less Deferred Interest Real Estate	1277-0-06	7,165,051.87 140,426.91	157,700,00			
Mont Search		12,368,105.71	11,998,650.88	402,081.55	7,080.03	55,659.31
	•					

#### Edison General File Series 1919, Ford, Henry (E-19-35)

This folder contains correspondence and other documents concerning Edison's friendship and collaboration with industrialist Henry Ford. Among the items for 1919 are detailed suggestions by Edison about improvements in the Dearborn Independent, a newspaper recently acquired by Ford that would later become notorious for its anti-Semitic content. Edison characterized the newspaper as "a dreary proposition for the man whom Ford wants to reach" and mentioned the Literary Digest and National Geographic as models of a popular magazine. There are also numerous letters and telegrams pertaining to preparations for a camping trip in the Adirondacks undertaken by Edison, Ford, naturalist John Burroughs, and manufacturer Harvey S. Firestone in August 1919. Other letters discuss Edison's work on a self-starter battery for the Ford automobile and the possibilities of developing water power in western New Jersey. The correspondents include Firestone, Ford's executive secretary Ernest G. Liebold, and Secretary of the Navy Josephus Daniels (characterized by Liebold as a "warm personal friend" of Ford), who expressed regrets about his inability to participate in the camping trip.

Approximately 60 percent of the documents have been selected. The unselected material includes unsolicited letters from individuals attempting to reach Ford through Edison, additional telegrams and correspondence between Lieboid and Meadowcroft, and Items (mainly about camping plans) that duplicate the information in the selected documents.

Documents relating to Ford can also be found in E-19-03 (Articles), E-19-14 (Charitles and Loans), E-19-55 (Personal), and other folders in the 1919 Edison General File.

# THE DEARBORN PUBLISHING CO. The Dearborn Independent

The Dearborn Independent
The Ford International Weekly
DEARBORN, MICH.

E. G. PIPP, EDITOR

Jan 14th 1919

Mr Thomas A Edison Orange N J

Dear Mr Edison:

I take pleasure in forwarding you under separate cover a copy of the first issue of the Dearborn Independent which is being published by Mr Ford.

I know Mr Ford would appreciate very much any comment you may make in connection with its make-up as it will undoubtedly enable us to make succeeding numbers more interesting by endeavoring to ascertain the general sentiment of its readers.

With bost wishes, and trusting you may find its pages of interest, we are,

Very truly yours

DEARBORN PUBLISHING CO

B G IMBOID
General Menager

January 17, 1919.

Hr. E. G. Liebold, General Manager, The Dearborn Publishing Co., Dearborn, Michigan.

Dear Liebold:

Here is some comment on the technique of the paper:

lat. Take the paper as a whole, it is a dreary proposition for the man whom Ford wants to reach. This class of man will not read it. There is very little in it that interests him. It was the property little in the control of the co

There are two publications in the U. S. A. that have wen out by pure merit, without the aid of any drumming organization like that of the Saturday Evening Post. These two publications are the Literary Digest and the Geographical Magazine.

when the literary Digost first started in giving the kind of reading matter it now gives. I wrote the kilter that if he kept this up and did'nt dovide his paper would be one of the most popular and successful publications known and without onk expense for a drumming organization.

2d. I notice your illustrations are very poorly executed. Make them fine or leave them out, but I should say use more of them.

3d. Solid columns, unbroken by spaces, with no place to rest, scares a slower reader at once and generally he will not start.

4th. Get a whole set of last year's Literary Digest and Geographical Magazines and send them to Pord's house, if he already has not yet them. I am anxious that he shall make the paper one that everybody wonts. Do you know that a week with the comment of the newspapers of the Gountry is actually shown on the screen in every Movie Theatre in the U. S. each week?

I am sure if ford will run through these literary Digests and got on to the style of stuff the public wants, he will gradually bring his paper around to a point where its power for good will be immense.

Yours very truly,

sear Liebald Here is nome command and the Technique of the proper 1st. Jecke the people case a cochicle, it are dreamy peroposition for the man whom fork udcents to seeach, x This days of man There will not read it, x Those is very Cille in it that intorest fine the will his it a you If you want the ordering man to absorb good advice you hunst ring it in, incomplewedly, accounty -Lot of very interesting therings there core two publications mediba have mant willout the aid of any organization lehente Sout Eve Post-x Theatroo are the Literary Digest of the Grographica Chila

When the literary & egest fend retorical in given of The the reading water it Edded that I be kept they up or dealist deviate popular publications Known without un 2nd I notice your Mudration we viry poorly Executed X make them I cara them out but of should say use mor

of them =

3rd sold Columns, unbroken
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He getarohale at last years Literacy Edgest of Congraphical May I see then to fail House, of he when by house got them I am anxious that Everybacky wants X

Ko you know that a the weekly collication of that pooregraphs Continued the Courset with Comment with Comment of the grapers at the the Marie Theatre in the US wech wark? I your swer of ford will run liver these xilvered Diger of stuff the bublic

bring to a res cure gradually bring to a part of a part of grad grad where its pawar for grad

E.B.FORD. Secy. & Trees.

# THE DEARBORN PUBLISHING CO.

The Dearborn Independent
The The Transport International Weekly

DEARBORN, MICH.

Jan 24th 1919

Mr W H Meadowcroft c/o Thomas A Edison Orange N J

My dear Mr Meadoworoft:

I am in receipt of Mr Edison's letter of January
17th with comment relative to the Dearborn Independent and
I am sure we very much appreciate the same. We shall
endeavor to incorporate his ideas in our future publication.

With kind regards, I am,

Very truly yours
THE DEARBORN PUBLISHING CO

General Manager

EGL Z

This letter was firsted by Mr. Litting he was obliged to have the office before reading it. Ю

# Commission of Conservation

427 Confederation Life Building

Thomas A. Edicon. Eq. .

ONAMOS FARE .

In J.

Dear Ir. Edicon:

The attached climping them from the "formers" of December 12th explains itself.

paper writer has been one liveries in reparting the paper writer has been one liveries in recognization of state of the st

accredited statement dealing with the results of received along this line, it will be esteemed a invoir if you have could be the results of received a five or if you have could be the results of received a five or if you have could be the received of muse.

In connection with my enquiry, would say that this is a matter in which I have been much interested and, in connection with the work of the Consideration, would be pleased to receive any cathering data bearing upon the subject discussed in the critical above referred to.

I am, Paithfully yours,

arhum (white Consulting Engineer.

AVW/WH/L.

February 20,1919.

Mr. Arthur V. White, Consulting Engineer, 427 Confederation Life Building, Toronto, Canada.

Dear Sir:-

Your letter of February 10th was received and sent down to Mr. Edison who is in Florida.

norming requestions and the from him this morning requestion me treasy to you that the item overed by the oliphing is mostly a newspacer story. He says, however, that Mr. Ford and he feel much interested in plans for connecting up many small water powers, and it is possible that they may do something about it later on.

I return your newspaper clipping herewith.

Yours very truly,

Assistant to Mr. Edison.

4 /6594



278NYGC 19

J MT CLEMENS MICH 720PM JUL 1 1919

THOAS A EDISON

ORANGE HJ

ADVISING BURROUGHS AND FIRESTONE MR FORD PLANNING ON ADIRONDACK
MOTOR TRIP JULY TWENTY FIFTH OR SHORTLY THEREAFTER PLEASE ADVISE

Wiebold, July 25 the will 62 only and

ver con locks in the

.

Jelegram

Jelegram

July 2,1919

E. J. Liebold

Mount Clements

Milet

July 25th med to
sattofacting to to me - the
can take in Alexandra to and
had of Kament.

Edward

Also sout to Demons, mich

# Henry Ford Detroit

July 12th 1919

Mr W H Mendoweroft c/o Thomas A Edison Orange N J My dear Mr Meadoweroft:

Relative to your letter of July 10th.

Er Ford will be very glad indeed to have Secretary Daniels invited as a member of the camping party. Both Er Ford and Secretary Daniels are very close and warm personal friends and it is a suggestion with which Er Ford is in hearty accord.

Therefore kindly advise Mr Edison that Mr Ford would be pleased to have him along and I would thank you to advise me at your enriest convenience in connection therewith.

Very truly yours

Coneral Secretary to HENRY FORD

EGL Z This letter was dictated by Edr. Liebold, but he was obliged to leave the office before reading it. CLASS OF SERVICE SYMBOL
Triagram
Day Letter - Blue
Right Message Mile
Right Letter - N. L
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# TELEGRAM

Form 1004

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OPANGE, N. J.
178NYGC 3SELEPHONE ORANGE 4951

MT CLEMENS MICH 730PM JUL 14 1919

THOMAS A EDISON
ORANGE NJ

DUE TO THE FACT MR FORD IS NOW ON THE STAND AND PROBABLY
WILL BE REQUIRED TO TESTIFY FOR SEVERAL DAYS IT MAY HAVE A
TENDENCY TO DELAY THE MOTOR TRIP BUT FOR NOT MORE THAN FIVE DAYS

E C LIEBOLD

Son portal 1005 and Jelly 16, 1919

Hon Josephus Daniels
Nashingler, D. 6.

Can you go a camping the to Advandacks and lamout for 10 days with Lerd, Recommended to the start some day between twenty for faith and therether Locally forth and therethere Locally Edward

NAVY DEPARTMENT,

Secretary's Office WASHINGTON.

July 16, 1919 , 191

Official (Class of message.)

Mr. Thomas A. Edison,

Orange, New Jersey.

I seem to be pre-destined to have to deny myself the pleasure that I would enjoy above all others. I thank you for your invitation, but I have made arrangements to leave Washington the first of August for California and therefore, must deny myself the pleasure. With warm regards.

Josephus Daniels.

Received Forwarded (Telegraph system.) (Officer on watch.) (Communication office.)

Telegrann

mound Clemans
mich. July 17, 1919
N. H. Mcadoweroft
MV. Ford planning to have
· party opened first night at
Allany and possibly open
first camp at green delauce
The date will probably be
or august 1" as Mr Burroughs
Row requested postponement
P 1
E. G. Liebold

WES	TER	MUM	ON	Form 24
D.A		TTE	7.21	r a 141

Form 2589 J

IEORGE W. E. ATKINS.	VICE-PRESIDENT NEWCOMB CA	RITON, PRESIDENT
RECEIVER'S No.	TIME FILED	CHECK
SEND the following on back hereof, v	Day Letter, subject to the terms high are hereby agreed to	July 16,1919. 191
Го		
. 1	Akron, Ohio.	
	. Am I	correct that Ford is to furnish the
	Camping outfit as he sa	id he would on our last trip. I
		long electric light and my automobile
		feur. I think we should bring slong
	a regular bedstead with	wide sheets and covers for Burroughs.
	It will be more comfort	able for him. I invited Secretary
,	Daniels but he could no	t come.
		Thos. A. Edison.
	Sent by Hear 11'0000	्री(वी)
	Sent by 11. 11:000	

RECEIVED AT COLLINION ST. & ESSEX AS

RANGE, N. J. 221NYGC 74 BLUE THONE ORANGE 130% 0257

THOMAS A EDISON

WESTORANGE NJ

FS AKRON O JUL 19 325PM

JUST RETURNED FROM DETROIT SAW FORD HE IS HAVING ONE AUTOMOBILE FITIED UP WITH A COMMISSARY DEPARTMENT AND ONE AUTOMOBILE WITH CAMP OUTFIT I THINK YOUR ELECTRIC LIGHT PLANT WOULD BE VERY DESIRABLE FORD IS STILL ON STAND AND ASKED ME ADVISE YOU THAT HE WOULD BE UNABLE GET AWAY BEFORE AUGUST FIRST TO NINTH I WILL MEET HIM IN BUFFALO AND WILL MEET YOU AT ALBANY WILL ADVISE YOU AT A LATER DATE

H S FIRESTONE

Telegrami

July 24, 1919

H. S. Firestone AKron, Ohio

I see Ford has finished testimony - Have any definite

arrangements been made for hip. Wend like to Know definite date

as for in advance as possible

Edison

Roul W.U. 7/24/19

# Firestone Thre & Rubber Company

HARVEY S. FIRESTONE, PRESIDENT

AKEDN, DEED

July 24, 1919

Thomas A. Edison, Esq., West Orange, New Jersey.

Dear Mr. Edison:

I have your telegram, and have wired Mr. Ford as per enclosed copy, which is self-explanatory.

Some days ago I wired you as per copy enclosed. I hope this arrangement is satisfactory, and that it will be convenient for you to meet us in Albany.

In regard to your electric light plant, along. In: Ford is also expecting you to take that oft, and, of course, your chauffeur or take often and, of course, your chauffeur or our care with the course of the cours

With personal regards,

Yours very truly,

HSF: cvs

Enclosure





SECCIVER'S NO.

CHECK

CASH OR CHARGE

YIHE PILED

Send the following message, subject to the terms on back hereof, which are hereby agreed to

JULY 24 1919

COPY

E G LIEBOLD MICHIGAN

IR EDISON WIRES FOR A DEFINITE DATE
AS EARLY AS POSSIBLE I OAN ARRANGE TO LEAVE
THE WEEK OF AUGUST FOURTH PREFER TO MEET
AR FORD IN BUFFALO FRIDAY THE EIGHTH WE CAN
THEN MEET MR EDISON ALBANY SUNDAY THE TENTHI MUST RETURN NOT LATER THAN AUGUST TWENTYTHIRD OR TWENTY-FOURTH

H S FIRESTONE

Suly 30/19
E. G. Lichold
Go Hany Ford
Deailorn Mich

Secretary Daniels has to go to
Pacific Coast and cannot necessary
Michael party. Mr. Edwar wice

meet party at Jeneyok Hope

Allany Morday evening.

Lund & Bestate

With the accourance of

Burroughe

Henry Ford Detroit

Er W H Meadowcroft
c/o Thomas A Edison
Orange N J
My dear Er Meadowcroft:

I am enclosing herewith an editor al

taken from the Detroit Times of August 12th 1919

which may be of interest to Mr Edison.

Very truly yours

E O CEBOLD

Coneral Socretary to HENRY FORD

EGL Z Enclosure

(7668)

0

# WESTERN UNION

MALE CONTRACTOR OF THE PARTY OF

SEND the following Night Letter, subject to the term

TRINGRAM

Dearborn, Mich., 9/22/1919.

Mr. W. H. Meadoworoft,

Dwange, N.J.

Kindly advise amount of material

required for suit for Mr. Edison.

Frank Capsall, Asst.Sec. to Henry Ford.

Showed this to Mr.Edison, who said if for a suit of clothes he did not know, but, he said, make it 25% more that I (H.A.A.) used and he thought it would be enough.

Sept. 22,1919.

Mr. E. G. Liebold, General Secretary to Mr. Henry Ford, Detroit, Mich.

Ey dear Er. Liebold:

Mr. Edison has requested so to write to you to say to Mr. Ford that the Delaware River has great water power potentialities, and that its but little utilized. He thinks there are three states that can be proured very cheenly. Each of these places have a high Summer flow - a large market for power.

At one place near our Cament plant, about six or seven miles distant, Mr. C. C. Vermoule, formorly State Gools; now a Hydraulic and Civil Engineer, set that a ta cost not exceeding a One Million investment, 7800 Horsepower with a minimum of 4000 Horsepower can be had.

Mr. Mison further says that he would agree to take 5.000 H.P. in the Winter, and less in the Summer for coment work on a 12.5 investment borner He thinks that over 25.000 H.P. is row bit of now 20 miles of the Sivor, and the property outlibes of the Sivor, and a thoy all have steem power for taking care of lighter Summer lead.

He suggests that you get New Jersey topographic map and look over the territory, Delaware water Sap to Trenton, N.J.

With kind regards, I remain,

Yours very truly,

Assistant to Er. Edison.

YEM fond the D'Elewarea Ruras has great water power Little utilized, +4 Thenk there is 3 place that camba got very theap it has al high summer flows, dange market for power, Of one place near the Cement works 601 y rules distant My Vermule otate Hydraulec Engineer

Doep that at a cout not becoming on Million invertidecet -7500-Horse power with a menimum of 4000 FDP-I myself wand agrees to take 3000, in the wenter and lesy we the suring for Coment coork on a 12% investment bases Think over 25000 HP is possible along 20 hules of the niver

Could be valed to have steam bower. fortæking Care af 1 Topographic Map Noleware Water Gap to Diculou M

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a c.	rem	ieule	
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		100	
	· · · · · · · · · · · · · · · · · · ·		
•			

Ford

Honry Ford Deurborn, Mich.

Mr. Thomas A. Edison, Let me Knowd Orange,
1. ... When tarreet

While in Tilton, N. H., on the recent camping trip, Mr. Ford purchased a quantity of worsted suiting from one of the mills and desires to present to each of the people who accompanied, sufficient yardage for a suit of clothes and extra pair of trousers.

We. therefore, are forwarding you by prepaid express six yards which you will kindly accept with his compliments.

Very truly yours,

General Secretary to HENRY FORD

EGL-P This letter was dictated by ldr. Liebble but he was obliged to large the office

Stewartwille Step.

The Thomas A. Edward.

Latatory Drawes Step.

Dear Sir, you may Remember the

per Litto who was at the comment

Plant as France machine ship fast

Mustin mechanic + asst Suft am horo

at the Ingensel Hand co ships Things

are viry slow here I Expect to go to

Detroit mich here wendsday

Could you see your way cleas

to give me a letter of introductor to the seeing Food Orginization? which would do me a great amount of good toward getting Something with them in my line how my seefet to so in the above I beg to Remain year respectfully of Mallo Diese Stewartsville.

October 6, 1919.

Mr. A. W. Dilts, Stowartsville, New Jersey.

Dear Sir:-

Your letter of October 3 has been received and shown to Mr. Kdison. He wishes us to explain that the nover, under any circumstances gives any letter of introduction to Mr. Menury Nord. The fact is that Wr. Ford and Mr. Kdison are warm personal friends, and neither of them ever give a letter of introduction to the other or in any way relating to business matters.

Mr. Edison is sorry therefore, that he cannot oblige you in this instance.

Yours truly, Edison Isboratory,

25.

<u>J</u> .

October 13,1919.

My dear Hr. Liebold:

Mr. Edison would like you to tell Er. Ford that he is getting along finely with the self-starter battery, and he thinks he will be able to secomplish it to his satisfaction.

> With kind regards, I remain, Sincerely yours,

Assistant to Mr. Edison.

Mr. E.G. Liebold, General Secretary to Mr. Henry Ford, Dearborn, Mich. Ford Motor Company

EDSEL B. FORD, President. F. L. KLINGENSHITH, Vice Pres & Trees. B. J. CRAIG, Secretory.

Automobile Manufacturers
New York City, N.Y.

PACTORY AND GENERAL OFFICES DETRIOIT

New YORK GREEN.

Nov 1 1919

Thos A Edison Esq Menlo Park Orange N J

My dear Mr Edison,

HEREPLYING OF TO

IN THE PLYING OF TO

IN THE PLYIN

While in Detroit I told Mr Ford that you were devoting a great deal of time to the battery and were in hopes of having one perfected in a short while. I also learned from the head of our manufacturing department that at the time being we are paying \$8,65 for our Free-te-lite Batteries and \$8,79 for Kride.

Mr Ford is looking quite well and asked particularly about your good health and requested that I please give you his kindest regards.

Terv sincerely yours

Hoodrow My Cay

Terd Noter Companys

EDSEL & FORD, President, F.L. RLINDENSMITH, Vice Pres & Treas B. J. CRAIG, Secretary.

Automobile Manufacturers

Detroit, U.S.A.

Mr. Mm. H. Meadowcroft, Assistant to Mr. Edison, Orange, N. J.

Dear Sir:

IN REPLYING REFER TO TAKE A AGREEMENTS CONTAINED IN THIS LETTER ARE CONTRIBED IN STRIKES, ACCIDENTS TIRES, OF ANY OTHER CRESS BETTER DUR CONTRIBED AND ACCIDENT STRIKES, ACCIDENTS TIRES, OF ANY OTHER CRESS BETTER DUR CONTRIBED AND ACCIDENT ACCIDENT AND ACCIDENT ACCI

We wish to thank you for your attention to our lotter to iir. Edison, and can only express our deep regret that iir. Edison cannot give us the time for the making of the film which we had in mind.

We appreciate, however, the busy life he leads, and feel that if it were possible he would give us the cooperation we have asked.

Very sincerely yours,

FORD MOTOR COMPANY

November 21 1919

SSM CL

Dept of Education

November 26,1919.

Mr. Walter Leffingwell, 507 Main Street, Peoria, Ill.

Dear Sir:-

Your letter of November 20th and the newspaper olimping connerning your discovery of a method of reading aluminum has been received. As this would not be of particular interest to us, we have forested it to one of our friends who uses a large quantity of aluminum.

Yours very truly,

Edison Laboratory.

A/8273.

Medaft 8274 dend this to richold They neary need it, brite man we do not use aluminin

#### Edison General File Series 1919. Foreign-Language Documents (Untranslated) [not selected] (E-19-36)

This folder contains foreign-language documents that were not translated by Edison's office staff, along with others that were translated and subsequently separated from the English-language version. The letters for 1919 are written in Italian, German, French, Swedish, Danish, and Russian. Some bear notations by Edison's secretaries requesting information about the subject matter of the letter and some are marked "crank" or "no ans."

## Edison General File Series 1919. Fort Myers (E-19-37)

This folder contains correspondence and other documents relating to Edison's home, property, and community interests at Fort Myers, Florida. Included is a financial statement by Richard W. Kellow, secretary of Thomas A. Edison, Personal, indicating approximately \$9,500 in expenses incurred during the year 1918. Also included are letters exchanged between Kellow and longtime Edison associate Frederick P. Oft while Oft was vacationing with the Edison family in Florida; a letter from Edison to Mayor W. P. Franklin complaining about damage to the palm trees caused by electric light wires; and a clipping from the Fort Myers Press entitled "Edison Piler a Menace" regarding the alleged danger presented to boats on the Caloosshatchea River by the inventor's unlighted dock. Other correspondents include property manager Nellie G. Tinstman, steamboat operator and Fort Myers Board of Trade member J. Frederick Menge, and futil grower George F. Ensey.

Approximately 10 percent of the documents have been selected, including a representative sample of correspondence between Kellow and Tinstman about estate management issues. The unselected material covers topics such as preparations for the Edison family's arrival, shipments of equipment and fruit, citrus sales, repairs, chemicals and experimental apparatus, the water supply, firefighting equipment, and financial matters. Also not selected is correspondence involving Kellow, Ott, and Mina Miller Edison that does not pertain to Edison personally.

# Secretarial Service Department THOMAS A. EDISON, PERSONAL

Memorandum No. 4496

Date Feb. 5, 1919.

FUNCTION: Thomas A. Edison, Personal. | | SUBJECT: Fort Lyers Estate.

Mr. Thomas A. Edison, Mr. Charles Edison:

Attached is statement of expunse at Fort Lyers from Jummary 1 to

December 31, 1918.

For the first three months the estate was unfor the management of Dr. Heitman and for the balance of he year under the management of Dr. Shethan, I have shown the expense insured by each of those gratieness, though there is hereby any fair basis of comparison between the two mounts.

The total engence for the year is \$9,945.66, from which we have deducted \$485.25, fruit, etc. sold, making net engence \$9,458.41.

In this total of net organises there is included in round numbers (5,000, for expenses of the Edison funly while at Port Lycres an increase of 2000, in scharies on appoint of the different arrangement make with the financial number of the different arrangement make with the financial number of the different arrangement make with the financial number of the lawns. I estimated in report made to you under date of June 11, 1917 that the cost of running the place would be (5,000, per year. Deducting these contras from the amount the place would be (5,000, per year. Deducting these contras from the amount for month by the attached attacement, you will see that the amount in lowered to around (5,000. With careful management, it seems to no that the estate ought to be run for about this figure per year.

KIK, FS

Copies to:-

1533-1-750-818

## STATEMENT OF FORT MYERS EXPENSES

## JAMUARY 1st to DECEMBER 31st, 1918

Sub . Acct.	Olassification	Heitman Management Jon.1 - Mar.31	Tinstman Management Apr.l - Dec.31	Total
1	Repairs of Buildings	272.15	210.06	482.21
2	Repairs of Dock & Dock Buildings	595.20	27.50	622.70
3	Repairs of Sprinkler System	188.28	261.90	450.18
4	Miscellaneous Repairs	176.41	100.80	277.21
5	Toxes		1,109.60	1,109.60
6	Insurance		292.43	292.43
7	Maintenance of Grounds	83.50	1,036.37	1,119.87
8	Maintenance of Fruit Trees	100.30	180.50	280.80
9	Truck Garden Expense	223,36	5.50	228.86
10	Miscellaneous Supplies & Expenses	332.76	250.62	583.58
11	Salaries	1185.33	1,150,00	1,335.33
12	Edison Living Expenses	711.80	2,402.31	3,114.11
13	Harvesting Fruit		46.78	46.78
	Total Expenses	2,869.09	7,074.57	9,943.66
30	Sales of Fruit	5.80	459.57	465.37
31	Miscollaneous Sales	1.75	18.13	19.88
	Total Sales	7.55	477.70	485.25
	Net Expenses	2,861,54	6,596,87	9,458,41

Expenses during Heitman administration of estate classified by estimate; no classification of accounts was in use during this period March 23/19

Mr. R. W. Kelliner Esur Sin

Chase let me know how you want this mittered abject ask the man who downthe the freight as I want to ship it the chapt it may.

There is no ent of work as copy thing to going to parces. The dock Mes Edward + Mes Consener as Locking after it. The will man has get an automorthe and does heaking the say it is more money in it then during wells but will start in the well business after Opril first.

when the sich yeathers go home I will get ofter him again. I spite to Mr. Colion about the hour and he sed he would let me know, how are things up there.

Remember me to all the boys

Frederick-P-OH

## Secretarial Service Department

THOMAS A. EDISON, PERSONAL

Function:

T.A.E. Personal. Fort Eyers Affairs. Memorandu- No. 3587

Dato March 27, 1919.

Mr. Fred Ott, c/o Mr. Thomas A. Edison, Fort Myers, Florida.

Dear Cracker:-

I have received, this morning your letter of the 23rd. '

I do not know what material you refer to when you ask me for shipping directions. Please do not ship any material to Grange from the Laboratory at Fort Myore, without first giving me a list of what you want to ship, as we may not man to use it. We do not want to pay transportation charges on a lot of stuff that will be of no use hore. Please let me hear from you about this.

I hope you are being kept busy and not getting into mischief. It won't be long now before your stay down there is ended, as I understand you are coming back on the 10th of April.

I have given your regards to the boys in the office, and all join me in sending you their best.

R. W. Kellow,

RWK: FS

Secretary.

Copies tos

1583-3-50-10-18

Oly to Jak Olors Jord Olors Survey Cont. Olors Survey Cont. Manch 31/19 Conting to Library, Mr. R. W. Kellow Jax. 4.0

DEM Sir

I am Shiping to lesange the metrical we spike about such as seaso Copper. Hand Rubber Clethical Insterments Chemical approximation and glass ware no machinery, as we are going to said the machinery down hire. I am only shiping stuff that we are glad to get at the Lot or atoms.

CORNILIDADES ESPATE

ADMINISTRALISMOSE

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ADMINISTRALISMOSE

ADMINISTRALISMOSE

ADMINISTRALISMOSE

CONVERSATION WITH LR. FRED OTT - - - APRIL 22, 1919

Look up contract with Towle or Nort Eyers Well Company. for artesian well drillod about ten years ago. / Er. Mison thinks contract specified depth or 1,000 feet and claims (per Prod Ott) that only about 500 feet depth was dug. The other parties of this contract claim that IIr. Edison accepted the well as dug.

Get out contract and show to Mr. Edison.

Boat "Reliance" was put into service 16 or 17 years ago. Er. Ott will look up exact date.

the. Tinetean has been instructed to call the five wooden water tanks having a capacity of about 5,000 gallons cach. In. Cit requested her to try to get 470 each for three tanks wideh are in good condition and from 140 to 150 each for the remaining too tanks.

Ireland probably is to receive contract for making concrete cistern which will probably be located in space previously used for chicken yerd. In the first that the same than the same that the same than the same than the same than the same that the same than the same t

Old elevated water tanks are in bad shape. Ir. Ott days these are to be taken down and prices gotten on an iron tower to support two tanks, one to be used for service water and the other for rain water. Det size of tanks. If irs. Finstiann is getting prices, ask her not to close until we also can get prices from here. I assume that tanks can be erected more cheaply by Fort Eyers labor than by representative of vendor.

Out to are Now. Receive

We Edisolosal world they will have water and love

vecinal for S

Mr. Cheson wite

ever, to get prices from wender for doing erecting work. Could get names of tank manufacturers from John Hiller.

Contract to be given or has already been given to ir. Layoook amounting to about .21,000. for piping from all cottages to catch rain-water and delivering it to cietern. Find out about this.

New electric pump bought from Mr. Laycock for passping water - cost about 200. per Ott.

TELL LRS. TIMETIAN TO HEPP LEPARATE ACCOUNTS FOR ALL OF THREE

Excuse pencil- per out of or lar CHERIL 1919 1

Hilleyers Ha for 3 mer Edware GRAPEFRIUT AND ORANGES will several acres of One you about of ocarges Citrus tress. Tul for House and hely other grown. There is a longe Qui bitas quick as the cody in claim for your instruction or machine and long

la offer to refer you to mass. W. K. Vauderlies C Oliver Iselde Geo. Von L. Meyer, J. Fr. Circhbold. W. H. Soge, Jose & Hoffmann, Edwar & Pork - a soone stranger of such wirer who esso my few houch have not of order

SOUTH MERRITT ISLAND

GEO. F. ENSEY PEFRUIT AND ORANGES

that there is no other that is ever news 20 good . If you kindly toke the trouble to answer this personally, or through your scretory to I man fiction men Gruit wice Toch you Do will glad To mail you sould Please down cloud this away the rodoubly spurrous clavies and attempts to attorned your motice that you get they references also we enable you to assistantly the books, our

4

Phone Whi Bok, Warrager of The Folice Home go in al Josef Hofmann God meson & Alicelia box 1/2 more ges 1/2 quete fuch of which to what neither brug works not muy waste most muy self ever enfri drawed that there waspuch believes Lucip . i the world-accordipated welt other fruit his the the se be of the wrup." as many customers have written Och is a privilege to be able to get such full I sout want anything for Ctus ctot I will said, suifly to know you will receive it is all. ER OF GRANGES AND GRAPE FRUI

GEO. F. ENSEY
TROPIC INDIAN RIVER, FLA

May 2,1919.

Mr. Geo. F. Ensey. Trooic Indian River, Fla.

Dear Sir:-

Your latter to Mr. Edison has been received and Laid before him. He wishon us to say in recly that he hus had shome at 2t. Myers, Pla., for 37 years on which there are several sorus of citras trees. Therefore, he says he does not see how he can make a trade with you.

Yours for the Victory Loan, Edison Laboratory.

A/7074.

FORT MYERS BOARD OF TRADE

THE OPERATING MEDIUM OF PROGRESSIVE PUBLIC SENTIMENT IN FORT MYERS AND LEE COUNTY, PLORIDA

B. E. TINSTMAN, PRESIDENT

W. P. FRANKLIN, VICEPRES. WM. JEFFCOTT, TREASURER T. B. ANDERSON, SECRETARY

> May Twenty-second

irs. Thos. A. Edison, Orange, H.J.

Observat gurs conclusion

Dear Madam: -

give his opinion or ideas in regard to Ploride begaring a sugar producing state. Welting about

doubt, has given his the opportunity to thow that this section has given him the opportunity to thow that this section has been a cone growing and sirum producing seek and the next step from the matter of the cone of the c

I know that in. Edison is busy, but I know that his signature to an opinion on the above matter would and a good deal to the efforts of Lee County in a ting the same recognition as other parts of the state.

I am enclosing copies of opinions of some of the sonators and congressmen who have expressed thomeshoes on the subject, and also a short statement from [2]. I. Rose, our State Chemist, and to save time, if in Edison will sign one of the enclosed blank statements, which would be used for publication in connection with other prominent men, we feel here it would be a great value to Fort Lyers and Eco County.

. Thanking you for your early attention to this matter, I am

Respectfully yours,

June Maria

J. Firmungj

7261

ORANGE. NEW JERSEY

From observation, being a winter resident for many years of Fort Nyers, Lee County, and also through information obtained from people into the control of the control of the country from the control of the control of the control of the control through co-operation and organization and the use of modern methods, Plorida can be made a unger producing State.

(Sign)

ORANGE, NEW JERSEY

Being familiar with Southwestern Plerida, Lee County and the Fort Myors section in part Court, I meet remany years as a for the cultivation of sugar case, and that the socially adapted for the cultivation of sugar case, and that the soil, climate, heat and abundant rainfall ought to make it a sugar producing country, if modern methods and efficient management is employed.

(Sign)

P.S. The above is nothing more or less than a repitition of ideans and opinions of people who are familiar with the subject and Mr. Edison's signature to either of the above would render us a great service, though a few lines from his own hand would, of course, be much better.

7.5

JFM/S

#### Senator Park Trammel savs:-

Washington, D.C.April 22d, 1919.

"Ployida in my opinion possesses musual possibilities for becoming a sugar producing state. In almost any part of the State sugar cane may be grown successfully. In many sections of the State our farmers receive splendid returns from their strup.

With the establishment of suitable sugar and sirup mills the success of Florida as a sugar producing state is assured."

Sonator Duncan U. Fletcher states:-

Jacksonville, Fla. May 10th, 1919

"Florida has the soil, climate, the conditions of heat and moisture and other factors entering into the successful production of sugar. It ought to be a great sugar producing State and I am fully confident it will prove so."

Congressman Herbert J. Drane says:-

Lakelard, Fla April 29th, 1919

"I have received several letters from you, anking for an expression of my opinion as to the possibilities of Florida becoming a sugar producing tate, but it has been almost physically impossible for me to reply because I am literally worked to doubt with matters which demand attention.

I may not live to see it, but the day will come when convouces areas in Southern Florida, and particularly in Lee County, will be a wast sugar came plantation. I have been told by people who understand the growing of sugar came and the making of sugar, people who have no reason for maleading me, who are well acquainted with the sugar preducing areas of thus, that the lands of Southern Florida, cormonly called Everglach Lands, or the Irade of Southern Florida, cormonly called Everglach Lands, or the Irade and the sugar and the complete sugar and the will whether I do or not it will only be a few years until the will

Mr. R. E. Rose, State Chemist

Tallahassee, Fla.

"Your attention is called to the special report on the adriability of stabilishing a modern sugar factory, to produce that you are presented sugar on the State Ferm, as made to the Board of State Institutions, November 25th, 1916. Such as factory would not only be exceeding preditable but would not only be exceeding preditable but would not only be exceeding the preditable but would not only be exceeding the product of the continuous states of the continuous continuous and the marmineture of sugar. By employing only modern appearatus using all the commonded devices now employed by the best sugar factories of the cost and but of pure standard grammagners and the common of the continuous continuous continuous continuous factories of continuous continu

May 29,1919.

Mr. J. F. Menge,

Fort Myers, Florida.

Dear Sir:-

Your letter of May 22d to my wife, asking for my opinion or ideas in regard to Florida becoming a sugar producing State, has been handed to me.

I regret I shall be unable to be of assistance in this matter, as I am unable to give an onlinion on a subject of which I know absolutely nothing.

Yours very truly,

A.7261.

June 24, 1919.

My donr Mr. Kellow:-

ti-m talking over the matter of the determ. I am trying to harry matter and think I have found out what the trouble is. The year affection at the time that is a trivial to tell what might be anomatored. In you think it bout to take up the manuscreed. In possible of the the the promise of the the the the state of the to take up the nature of the trivial to the tell what might be anomatored. In you think it bout to take up the nature of all of the trivial to the trivial trivial to the trivial to the trivial to the trivial trivial to the trivial trivi

When I assured him and read him parts of your sign. The ratter of the trouble a few years angocaive payment promptly, upon matisfantory completion of the work, he seemed more
stilling to talk bunkness. He will most be tomorrow morning on the ground and I
will lot you know the result. There was no change of getting his here comor as
home to look after affiling his loors lawren. People were about strowed out up
there, Ir, Lefton claims he is waiting for latest prices. He is sticking to
the doct now. He could now only 90 of the pile out of the 250 cut.

bers in the porch roof are badly is on the job at lant. How we find the bir thebers in the porch roof are badly rotted. He asys it will cost shout job to replace what is necessary. I am having them replaces, as I feel ours if. Edicon could not cave to have see whitejac and cave calleg need loaving rotte sitebers between. I will eath on the closely and have him use the lumber settled in the graze to save all waste possible. We had to order shingles from lazisland, I think it was, as there were some in term. They were 50% more a thought of the three works have had to att three months, as they are been appearing than for about that long.

Please tell Mrs. Edison there is about 17,000 gailous of rain water in the pool at the present time.

I have mover received the pencil note from Some Sabinson which you thought was enclosed in your letter. Shall I may her the \$25.59?

give it to the Company here. Then I will send you the corrected one they gave so on honor to keep here. Forhaps you have received the tires ato, and do not meet this control.

Sill write you in regard to other matters tomorrow.
They tell me all the materials mentioned in your list have been received but the iron straps have not arrived yet. I am going to look them over

myself to make sure.

An scaling tox 25.00 for boat "Reliance," as I believe it must be paid by the 30th June to Internal Revenue Department.

Very truly yours.

Mrs. B. E. Tinstran.

## W. R. WALLAGE & COMPANY Fort Myers, Florida

#### June 24, 1919

Specifications for the construction of 50,000 Gal. re-inforced concrete water reservoir for Mr. Thos. A. Edison at Fort Myers, Fla.

Location Dimensions Adjoining swimming pool on river bank in Edison grounds
50' paralleling river, x 25' wide x 6' deep, with gabel roof.
Wells, 8" on top and 10" at base. Ploor 8" to float finish.
Pilasters, one on each end and two on each side, equally divdding the dictance and to be built in unit with wall, 4" x 15"
extension beyond well at top and 8" x 15" extension at base.
Roof. 4" to float finish with 6" projecting eve, walls extending above gabel as shown in accompanying sketch.

Materials

ing above gubel as shown in accompanying sketch.

Concrete to be composed of 1 part high Orado Fortland communt.

2 parts clean sharp sand and 5 parts screemed fiint rook graded

from 2 to 20, machine mixed with clean water to proper con
sistency and placed in forms after the most approved method

so as to thoroughly cover and imbed the reinforcing members

which shall have been previously placed and held in position

by proper clips or ties.

Reinforcing shall consist of \$\tilde{g}^n\$ twisted or deformed steel bars placed 12" apart in floor each way and in walls graduated from 8" to 12" from bottom to top and 12" apart vertically. The wall rode shall extend 10" into the floor beyond wall line and the floor members shall bend and extend 16" into wall above top of floor line. The pilasters shall have one rod in each corner

these to be tied by horizontal rode 15° spart running around outside of verticals and extending 3° into wall in each direction. All rode shall be so spaced that at no point will there be less than a covering of 2° of smooth compact connecte.

Floor shall have a slope of 6" to SaW. corner of reservoir for purpose of cleaning out periodically, and roof shall be provided with suitable metal manbole with frame set in concrete and latch cover.

Ventilator shall be placed in each end of gabel, same to be screened inside and latticed outside.

Drain pipe shall lead to river from lowest corner of floor with proper valve for operating same.

All to be completed in a thorough and mechanically First class manner ready for use  $_{\bullet}$ 

XXXXXXXXX

June 28, 1919.

Mrs. B. E: Tinstman, Fort Myers, Florida.

Dear Mrs. Tinstman: -

For our convenience in handling correspondence and following up the various matters taken up by correspondence, we make it a rule to write about only one subject in each letter. We have found that it is practically impossible to properly follow up matters in any other way. By the use of this plan, we can keep all papers pinned together that pertain to any given unbject and when the matter is completed we can file them away permanently. The file shows a concluste history of what was done and in eastly-get-at-able shape.

You and I are gotting to be such prolific letter writers that I think it would be a very good plan to extend this method to take in the letters we exchange about Fort Myers affairs. You will see what I mean by the several memors I is making today to your letter of the 24th. Will it not be convenient for you to observe this rule also? I am sure you will find it a very great help to you in your office work.

You will no doubt want to write letters of a general nature from time to time, reporting on missellaneous mathers of interest about the estate, and a general letter of this nature, of course, is not objectionable. Hat ters pertaining to new dock, new cisteru, repairs of buildings, etc., etc., are such as 1 have in mind as the subjects on which we should write separately.

What do you say?

Yours very truly,

Secretary.

## FORT MYERS BOARD OF TRADE

PROGRESSIVE PUBLIC SENTIMENT IN FORT MYERS AND LEE COUNTY, FLORIDA

B. E. TINSTMAN, PRESIDENT W.M., JEFFCOTT, TREASURER L. G. BIGGERS, SECRETARY



July 15th. 1919.

My dear Mr. Kellow,

You may be anxious to know how things are going down hereon the Edison Estate.

Mr. Lofton willhave the dock ready for Mr. Van Duylthie week. Mr. Wan Duyl will have the porch roof finished this week, so things are working out inicely, there will be no trouble with the porch roof I think in fifty years. It is a fine job. It does not look as if there is so very much work necessary on the porch floor. I presume Mrs. Edison would like the ceiling painted the same Reaven's blue that wee on before.

Mr. Eruton had the grapefruit tree budded as he toldMrs & divey he would . They put in 146 buds , and not one of them lived. Too wet or something, they will try it over the lat. day of Aug.

The tank on back porch has been well cleaned, and we are catching the drinking water. Mr.Leyock will take some water direct from the well to be tested in Tampa. bethinke this the better way. I had an opportunity to go to Tampa, this week, but my stenographers brother—in—law whohas bear fill for months died and the whole family went that. Perhaps when she gets down to business again I can get away for a few days. I would like to attend to the water test myself if possible .

The lumber for the cock is spendid Quelity, it was to have been 85% heart, and it runs 90% to 200%. Mr. Duke will likely come in for money soon.

.Mr. Smith is selling Mangoes, and when some of the nice ones ene ready will have a crate shipped to Mrs. Edison.

. Mrs. Edison spoke about having Guava jelly made; I will see some onemakes it. The women Mrs. Edison mentioned in connection with it are not here at presant.

I have not forgotteh about sending the fruit report for 18et season but, whith all the work going on at the Edison Estate , have had my time and mind full.

The brick offers are up to six dollars a thousand now. Hope to get more.

"We are having very hot weather, but, plenty of rain, other wise things would be in bad shape.

Mr. Tinetman advises me not to write him after Sept.lst. so am hoping he will arrive here before many months.

Mrs. B. E. Tinsterian

Pr. W. Mesdownroft. Assistant to Mr. Edison:

Attached is copy of telegram received this morning from Mrs. Tinstman at Fort Livers. I have answered the encircled portion of telegram that it is proper to set the tile for piling bell end down. I have done this after talking with Fred Ott who states this is the usual practice at Fort Lyers and is perfectly satisfactory.

Would you like to dope out the letter for Mr. Edison to sign,protesting to the Mayor of Fort Myers or to the City Council about electric light wires which hirs. Tinetman states are destroying the palms on the boulevard? I am informed that Mr. Edison presented these palms to the City and is therefore very naturally interested. Furthermore, these palms as I understand it are located along McGregor Boulevard leading from the main part of town to Mr. Edison's home.

Fred Ott tells me that the Electric Light Company's poles are located so that the wires run through the palm trees and that from time to time the employes of the Company climb these palm trees with spikes thereby injuring or entirely destroying the trees. He states further that these employes are in the habit of sawing off portions of the trees where thanterferes with their wiring. No doubt they find this cheaper than it would be to insulate their wiring.

I do not know the names of the Eayor or any of the City Council. I should think a letter addressed merely to "Hizzoner" would be satisfactory.

RWK-fs

Hout Know his name. Jud Mayor well do

13NYC 57NL

FORT MYERS FLO JULY 28 1919

R W KELLOW

EDISON LABORATORIES DRANGE NJ

MR LOFTON SETTING TILE BELL END DOWN IS THIS CORRECT
OR MR EDISON PREFER BELL END UP NO MENTION MADE
OF THIS IN CONTRACT PLEASE HAVE MR EDISON WRITE STRONG
LETTER TO PRESENT TO CITY COUNCIL REQUESTING REMOVAL OF ELECTRIC
WHRES THEY ARE DESIROYING PALMS ON BOULEVARD AND PROPERTY OWNERS
ARE GOING TO DEMAND THEIR REMOVAL

MRS B E TINSTMAN

728A

July 29, 1919.

Mr. Charles Edison:

Attached from Errs. Tinstman dated July 26th regarding Smith . the caretaker at Fort Lyers.

no you wish to pass upon this matter or shall I submit it to hr. Thomas A. Edison? Mrs. Edison and you made the arrangements with his. Thomas.

Nomen was kicking for more mong at the time he was cired in 1917.

Lifth is getting 500 per month, the same as was need to Second. I record that it was thought possible it would be same as was need to Second. I record that it was thought possible it would be same to be the part of visions to pay him 400.

John the same the same to be the part of visions to pay him 400.

It this is about the same use as is being paid by other people the me reproduced. He was the me significant to get good man in Port byers as they have a limited number of people to select from. I have no doubt this is true.

Kellow- 7/29/19 11. 2/101100,
Kellow- 1/29/19 11. 2/101100,
West Tell from to pay any amount up to 7000 at
Their own discretion -

B. E. TINSTMAN FORT MYERS, FLORIDA

July 26th, 1919

My dear Mr. Kellow,

This Letter is in regard to MR.Smith.

hre. Smith tells me that they are going semy the first on south or six weeks and probly for god as who Smith feels be can do between the six seeks and probly for god along on what they make the six of the six

uifering badly with Manga poisoning, they are certainly trying to get all possible out of the Mengaes. They go out at day light to get all possible out of the Mengaes. They go out at day light to get all two many can be a chance to steal them. Every worning, now, as chief of course and bring in a crate or two. We are a considered to the course of the

and plents on the place, and we have been morking out someny ideas to please krs. Edison that I would dislike to see him leave just now. Pe is rise quit as machanic, and fixes many things that would cause more expense otherwise. In place of getting a cart se planned lest winder, was got the \$12 one at Reitman and Forms, and had broad wheels put on, the first mach lest much less cost that the care of the planned and the planned

work.

Wor please do not think I sem pertial to Nr. Smith, if I honeatlythought we could do se well for the roney I would be glad to try. As I
as trying in Nr. Tinetmans absence to look after the Edison interests even
more then our own, but I know this time of year we cannot find as good a man;
in the winter one has more of a choice, but I know we cannot get a man worth
eny thing for the money Nr. Smith agetting, so why not give it to him if
he will stay? Nrs. Smith seemed to think Nr. Smith self in the not occurse this summer is urneal I some syntain that the thin. It thought it be
to try and we pull, person I know whet Nr. end Nrs. Edisons pleasure is in
the matter.

Very truly yours.

Dynamic.

Copy to Mr. R. W. Kellow:

July 30,1919.

To The Enyor,

Fort Myers, Ala.

Sir:

Tem informed that the electric light wires and the methods of installing the sums are destroying the pulms on the Sculevard, and I wish to enter an emphatic protest, with a request that measures be taken immediately to prevent this destruction.

Yours respectfully,

Franklin Hardware Company

SPORTING GOODS

FARMING IMPLEMENTS GENERAL HARDWARE

FORT MYERS, FLORIDA, Aug. 18th 1919

Kellow-

Mr. Thos. A. Edison, Orange, N. J.

Dear Mr. Edison:

complaint the destruction of Palm Trees on the Boulevard, has been received, and in reply beg to say that there has been only a few of these Palms injured by the electric wires, and that happened during a very heavy rain storm some weeks ago.

matter up with Mr. Frank Nollett, the local manager for the Southern Utilities Co. here, and he advises me that they are changing the wires; and are putting them on an outrigged arm which will put the wires outside of the line of the trees and Falms. He says that this will remedy the matter for quite a number of years.

Trusting that this will be satisfactory, I am,

uting was Most truly yours of W. Franklin Mayar,

You have Mrt. Edisons protesting letter in Mr. nicasowcrofts files. May I key gest that you would not trouble her Ein on to sign it peroually - RWX 8/21/19

Fort Myers, Fla. Hovember 17, 1919

W dear Mr. Kellows

ir. Unliane filled the distorn Saturday and apparantly it is holding water all right, but as to-day is a rainy day I am waiting a day or two before turning over the check.

100 ft wall. I have not so yet readret the analysis from the lot of twell. I finally found out that resolventille was the place to send this instead of the send out the send of the send out the send out to the

Ar. Ean Duyl has replaced the fonce posts, and cates driving into the garage were in such bat shape I had him make ontire new sates.

The chimney is finished in the cure keerers house and the perch as remeals, but we had to reput the perch as one of the timbers under the perch gave way and one of the carpenters fell through but fortunitely was not but.

Yours very truly,

Lignoù Mrs. B L Tinstean

A STATE OF THE STA

#### Secember 9th, 1919

War Dre. Tiestenn

In your letter of kovecher 21st, you soom about the wate getting the grape fruit and 1 have thought you may be interested in knowing about a Covice placed on one of the mut trees on Mr. Edison's Matata have to present the aquirrals from getting the units.

into sorte in nothing care our keet than 1 piece of size or guivanted from a relice to the rect and sent outset in the form of an agreem. It is wide enough so that an animal sorte or up the true unif an animal sorte of commonding of concess size of the nerven the continuous size of the nerven continuous s

Yorr troly pours,

couretary.

# THOMAS A. EDISON, PERSONAL.

December 9th, 1919

Mr. Thomas A. Edison:

Please see attached from Irs. Tinatman with newspaper clipping from the Fort Eyers press regarding your dock.

From my recollection of docks at Fort Lyers, I would say there are a number of them somewhat longer than yours, which are located within the city limits. This is borne out by the Sirds kye View Lap which I brought back from Fort Lyers with me and now have in my office. Your dock is shown on this map to be considerably shorter than other docks. Of course, the map may not be accurate in this respect.

Do you think you should have lights put on the dock as suggested and do you wish a letter written to the Fort Lyers press reearding the matter?

The can peut day to landrom of necessary along on a row to best advantages.

These handers of the control to th

December 5, 1919

Mr dear Mr. Mellow:

The enclosed olipping appeared in our paper here several days ago, and I thought perhaps I should send it on to you. I went down and asked the Press people who was responsible for this piece, and they said the Press was. I told them I thought it was very unjust and unkind of the Press to publish such an editorial, as I felt sure if the matter were called to Mr. Edison's attention he would be only too willing to do anything necessary for the safety of those who use the river. This is one of the things that has not been brought to the attention of those in charge of the estate, and no one has happened to think of it.

Our paper has been taken over by a man from Weshington, D. C. , within the last few weeks, and I think this accounts for it, as I do not think that the people who owned it previously would publish such an article.

Will you kindly suthorize me to have the proper lights put on the pier, and suggest what you think is best.

Yours very truly,

Ims. B. E. Tuisturan

#### EDISON PIER A MENACE

'Yaphianen in aen-ral and nontrinations in particular who are voud to travel the Golosshackee down-trems from Part Myers are at a loss to understand with any fastivities is permitted to understan aprivate pier that acteding needy meelshelf the width of the river. And taker view is shared by musty adserment and passengers on the board ball by the wind handary of Part Myers' corporate limits. Abelto that forms the needs handary of Part Myers' corporate limits.

- The fact is, as every observer knows, the long private wharf that projects far out into the river—a body of water that is treacherous at three-the property of Thomas A. Rálson, is, as it stands, a mease to navigation. It is passing simuge that the perfeces inventor or things electrical, a

It is passing strange that the perfects inventor of things executed, as genous whom everyone honors, admires and respects should fall to device some means of offixing, to hir elengated dock, a light that might serve as a warning signal to unsuspecting navigators of small craft particularly that they may steer clear of the obstruction.

Experienced rivermen any that unless nome sort of beacon is placed on the Edbison wharf at some point, preferably at the end of the pier, a serious accident may result with attending loss of life and property. Fog. axtenue darkness and threatening storms, of ourne, nidt to the danger that now exists.

Everyone in Fort Myers rejoires in the fact that Mr. Edison maintains a winter home in this fair city. And none begruidges the great inventor his private what for the pleasure be derived from it. But after all Mr. Edison is just an individual and the safety of hits fellow-even has the right to be considered.



Dear Mrs. Tinstman:

I wrote you on the 12th regarding lights for the dock and referred to lights to be run by electricity. It did not occur to me that there is no wiring on the new dock. ir. Ott will, of course, attend to this wiring when he comes to Fort Myers, and if lights should be put on before that time you will have to arrange some sort of oil burning apparatus. Perhaps lanterns would answer the purpose as well as anything else until permanent lights could be put up.

Yours very truly,

Secretary.

Mrs. B. E. Tinstman. Fort Myers, Florida.

### Edison General File Series 1919. Glenmont (E-19-38)

This folder contains correspondence and other documents relating to be doors home in the private residential community of Llewellyn Parkin West Clrange. Most of the selected Items for 1919 pertain to the installation of a new underground electrical cable between Glenmont and the liaboratory, so that the house could continue to use direct current rather than switching to the public supply of alternating current. Also included are documents regarding the construction of a new cottage for the charifteru. Many of the documents are authored by Richard W. Kellow, secretary of Thomas A. Edison, Personal Other correspondents include Charles A. Nicolai of the Construction and Maintenance Service Division of Thomas A. Edison, Inc.; attorney and Llewellyn Park trustee William R. Howe; and N. A. Carle and Edward B. Meyer of the Public Service Electric Co.

Approximately 25 percent of the documents have been selected. The unselected material includes additional correspondence and legal forms relating to the underground cable; seed orders; and quotations from contractors on barn repair or removal.

THOMAS A. EDISON. PERSONAL

Function: Thomas A. Edison.

Memorandum No.

SHRIEGT. Electric Cable from Laboratory to House. Date May 8, 1919.

Lr. Thomas A. Edison:

Suppose you get ides, especifications for a Calle

ir. Thomas A. Edison:

We are haring trouble frequently with the cable over which current and action of the cable over which current and actions of lighting. A few months ago

we spent \$400. to renew one section of the ophic can afout 20 test in addition on meeds to be renewed, the estimated cost of the first and assume that the control of the cost of the cost

be allowed by the Park Trustees. The total cost of renewing this gable as shown to the cost of renewing this gable as shown above would reach about \$3,600, if in policy is settimate is supercompactly owned to the cost of the part of t that this would pay any bills for lighting which might be incurred through the use of high lawson to floringe at house of Public Service current.

Under these circumstances, do you think it worth while to keep this cable in repair?

Of course, no one can tell how long the cable, which has not yet been renewed, will last and no doubt it would be well to spend the \$200. necessary at this time, and continue the use of the cable until trouble develops again, but it seems to me that it might be well to consider abandoning the use of the cable and switch over to the use of Public Service current.

Capies to:-

P.S. - Since writing the above, I have gotton some information from the Public Service Electric Company, copy of which I attach, which may 15333KXXXBACOAZYX be of interest.

## [ATTACHMENT/ENCLOSURE]

Up to buu	K.W.	Hours			•	•		•	•	•	8	10	per	K.₩.	Hour	
500 K.W.	Hours	to 1,000	K.W.	Hours	٠.	•				•		.09	"	"	"	
1,000 "	17	" 1,500	"	"						•		.08	"	17	"	
1,500 "	"	" 2,000	"	**							٠.	.07	"	"		
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AV	FRAGE	Richard Russell	Colg Colg by	ate.						•	• •	\$6 12 18	.to .to	\$12. 19.		

THOMAS A. HDISON, PERSONAL

Memorandum No. 1940

Thomas A. Edison Personal SUBJECT: Electric Cable from Laboratory to House

May 8. 1919.

Mr. C. Hicolai, Division Mamger, Construction & Maintenance Service Division, Thomas A. Edison, Incorporated:

Referring to our conversation on the telephone a day or two ago regarding the cost of replacing cable for electric current from laboratory to Mr. Edison's house, I have just received the following note in this connection from Mr. Edison:

> "Suppose you get prices and specifications for a cable of modern make to replace the old one; also for high tension overhead cable to garage and then a step down transformer also instead of step down transformer, a rotating transformer to turn current from A. C. to D. C.

"The Fark will permit small wire if put up so not noticeable. The wire would be small if high tension to garage at house."

Will you attend to the getting together of this data for Mr. Edison and submit to me, or do you think this ought to be done by the Laboratory? If we can do it here to better advantage than you can do it in your Division, we shall of course be glad to undertake the work.

is it necessary at this time to do any more than patch up the old cable to restore the lighting at the house? If possible, I should like to avoid all unmedosary expense in connection with restoring the lighting until Mr. Edison can decide what he will do in connection with remewing the entire cable.

R. W. Kellow,

Secretary.

Ediphoned

Particulation of the property of the second

Copies to:-

1533-3-50-618

May 19, 1919.

Er. Edmind H. Carhart, C/o Edison Portland Coment Co., Stewartsville, New Jersey.

Dear ar. Carnart:

irr. Editor is contemplating the station of 6 to 8 room contage for her charferor on the Editor estate here in keet Orange and I have secred for lire. Editor to Aladdin Company's catalog, which constants some very structive number. I undorstant that there are six Aladdin nouses at these tracking manner with the third committee of the continuous of the continuous I man schooling if you could be business that the continuous and t

- (1) The approximate date of erection of your houses?
- (2) Price paid the Aladdin Company for them?
- (3) Catalog numbers or names of the houses?
- (4) Wast was included in the materials furnished by Aladdin Company in a general way?
- (5) What was the cost of the labor to erect and finish the nonzer complete and can you say in detail want the cost of the axxavation, carjenter work, mason work, etc. was?
- (6) Did local contractors erect the house without supervision of the Aladdin Company, and did they experience any difficulty in doing so?
- (7) Did you get any competitive bids from local contractors and if so, how did they compare with the cost of the Aladdin house when completed?
- (8) Are the houses absolutely satisfactory?

if you can give us some dope of this sort, it will help immensely.

Tranking you very much, I am,

Yours very truly,

## Edison Portland (ement (e.



STEWARTSVILLE, N. J., U. S. A.

May 29th, 1919.

Mr. R. W. Kellow, Sectiv., Edison Laboratory, Orange. N. J.

Dear Mr. Kellow:-

Replying to your letter of the 19th inst., with reference to Aladdin Houses.

This is the earliest I have been able to get any intelligent idea of the matter, based on the experience of the Edison Portland Cement Company's use of these houses.

six of the chap grade house, known in the catalog \*\*"Emerald.", which cost about 500 months to catalog \*\*"Emerald.", which cost about 500 months to catalog \*\*"Emerald.", which cost about 500 months catalog \*\*months of the cost of the cost of the catalog \*\*months of the cost of the co

by one of our own men. These houses are all correctally cut to a plan and are very little trouble for even an average corporator to zerot. Do not think we had competitive average corporator to zerot. Do not think we had competitive the proper note of proceedure if Mrs. Edison desires to purchase an Aladdin house would be to get the Aladdin company, Bay City, Michigan with exists, then secure the services of a local contractor giving dimensions of highly to be erected and get estimate of cost of co

Yours very truly, Schmink Harhash

ESC: CB

Secretarial Service Department Kellow THOMAS A. EDISON, PERSONAL & priefes the Calific Momorandum No. Thomas A. Edison FUNCTION: of nat want ate our 27 (1919) Electric Cable from Laboratory to House SUBJECT: would in my house Mr. Thomas A. Edison: Attached is my memorandum #4634 of May 8, addressed to you regarding renewal of cable from Laboratory to your residence in the Park, with-our notation on it. Nicolai has furnished me some figures from which I give you below estimated comparative costs of renowing the soble and of switching-over to Public Service System:

April 100 of the cost of renowing the soble and of switching-over to below estimated comparative costs of renowing the soble and of switching-over to be such that the cost of th Retimated cost to install Modern Cable : Hatimated cost to connect with Public in place of old Cable now in use, with : Service Corporation's System and make : necessary Installations and Changes, cost per K.W.H. for Current consumed. (D.C.Current supplied through laboratory: with cost per K.W.H. for current consum : (A.C.Current supplied by Public Ser.Corp.) : Public Service Line from their feeders Cost to run #00 3-wire lead-covered : to garage (about 4 poles)......\$250,00 cable from Laboratory to Garage to de-: Motor Generator Set with a liver D. C. current on present : capacity of approximately 100 amp. me thod....\$3,500.00 on D.C. end, for charging or any : service requiring D.C. current.....\$750.00 Changing motors for pumps : (3 motors) to A.C. ..... Installation expense.....\$250,00 Total Investment .....\$1,300.00 Total Investment....\$3,500.00 Operation Operation Annual Repairs (Rough estimate) \$100.00 : Annual Repairs (Rough estimate) \$100.00 78.00 Int. on Investment (6%) 210.00 : 30.00 Amortization (Basis 10 yrs) Amortization(Basis 10 yrs)350.00 : ti Annual cost exclusive of current \$308.00 Annual costexclusive of current \$660.00: : Annual cost of A.C.Current used Annual cost of D.C. Current used, estimated at 500 K.W.H. monthly estimated at 500 K.W.H. monthly (6000 K.W.H. annually) at .10 (6000 K.W.H. annually) at .025 per K.W.H. the present rate charged per K.W.H., the present rate .....\$150.00 : by Public Service Corp. up to 500 charged to Laboratory..... \$600.00 K.W.H. monthly ..... \$908.00 Annual Cost, including Current Annual Cost, including Current \$810,00 :

.135

Cost per K.W.H. (6000 K.W.H. annually)....

.1513

Cost per K.W.H. (6000 K.W.H.

annually).....

#### THOMAS A. EDISON, PERSONAL

FUNCTION:

Memorandum No.

SUBJECT:

Date

-2-

You will note that on the hasis of 6000 K.W.H. consumption per year there is a saving of .0105 per KW.H. In fewor of putting in your cable, which amounts in money to about \$100.00 per year. Full co Service current is used at the house only in one to your residence, so I have no means of on the cable dollariest is consumed at the house. The saving on each 1000 krowing how much access of 6000 K.W.H. per year up to 10,000 K.W.H. per year is as

Yearly Consumption	Saving per K.W.H.	Amt. of Saving per year
7000 K.W.H. 8000 K.W.H. 9000 K.W.H.	.0147 .021 .0253	\$103.00 \/ 158.00 \/ 128.00 \/ 290.00 \/

These figures of cost of operation you will note include interest, etc. on the investment. After ten years, when the investment has been fully written off, the saving would be the difference between the Public Service rate and our own rate, less the cost of uphase.

This comparison holds good really only for one year, as after that time interest should be calculated only on the amount of the investment remaining unamortized. This will make a greater saving in favor of putting in your own cable and supplying electricity from the Laboratory.

I am not enough of an electrician to know whether Hicclai has supplied just the information you want. If not, I will try to get whatever additional information you wish.

R. W. Wellow, Secretary.

Ediphoned 24

Golden 4, 200

Copies to:-

1533-1-750-318

#### NEW COTTAGE FOR CHAUFFEUR

Mr. Bowers on telephone July 15th, 1919, says -

He estimates the cost of the cottage complete, as per rough plans submitted to Mrs. Edison, at \$6,500

In response to inquiry as to cost of getting out definite specifications and making price based on definite estimates from contentors. In however says this int usually done. The usual practication and the partial process of the partial partial partial process of the partial partial process of the partial partial

If contraction is desired of hollow this and studen, the price he estimates would be approximately the same a possibly would increase the cost shoot globo. If this construction of the contract has constructed and the contract has contracted and the contract has contracted and the contract has contracted and the contracted has contracted and contracted has contracted and contracted has contracted has contracted and contracted has contracted himself and contracted has con

ir. Sowers does not recommend stucco construction. Says it cracks and does not hold its good appearance. It is better over hollow tile than over frame, but is not satisfactory in any case.

Mr. Bowers says that hollow tile construction gives no warmer a house than good frame construction.

Nr. Bowers says that prices on materials are advancing continually and that labor is scarce, that every weak's delay costs money. Recommends that an early start should be made.

Mr. Knowles says steeces on frame will cost approximately \$6000; on freproof tile \$6600. Could make facts for gater of strace also. Cloque prompt attention.

Mr. R. Kellow:

Service Officials as to tig proper and most modern methods or underground cable installations | find that they do not advise laying such a cable without placing same in an iron pipe with at least eleven manholes as shown on attached B. P.

away up, estimated cost of the various items are as rollows; tems and back fill 808 Cu. Yds. 1616.00 146.10 160.00 1266: -000-000-0 -0 1618.17.30 pr 179.75 1616.00 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 1618.18 16

Ir 0000-0000 Cable is used to Garage and 000-000-0 Cable is used from Garage to House add \$600.00 .

If 00-00-0 Cable is used to Garage and 0-0-1 Cable is used from Garage to House, deduct \$363.00.

The 0000 will deliver 100 Amps. at Garage with drop of approximately 12.5 volts.

The 000 will give a drop of 25.8 volts.

Thomas A. Edison Inc.
CONSTRUCTION & MAINTENANCE SERVICE DIVISION

Man. M.colar

Division Manager.

July 30, 1919.

Mr. Thomas A. Edison:

I now have an appointment with Mr. Leib of the New York MM son to house.

I expect to show Mr. Leib specifications of contractor and ank his opinion of them and also of the contractors who have submitted bids who are Davis Electric Company, K-W Electric Co. and Saver Engineering Co., Inc., all of Newark. The Fourth and called upon we have not heard from.

Would it be going too far to suggest to ir. Leib (if I cannot lead him to suggesting it himself) that perhaps he could supply the cable, conduct, etc to you through his organization at a better price and for earlier delivery than you could arrange for elsewhere, and also him that it would be very nice if some of his men could do the electrical work, charging you whatever was proper and if possible giving an estimate of the cost.

Colonel Carty of the American Relephone & Telegraph Co. is out of town and will not return until next week. If you think it advisable to get his advice regarding the best conduit to use in addition to the advice from ir. Leib. I will try to see him next week.

Un. Edison pay thinks In . W. Mollow Soorberty

Mr. Elson

THOMAS A. EDISON, PERSONAL

Function: Thomas A. Elison, Personal.

Memorandum No.

SUBJECT: New Electric Cable-Laboratory to House. Date Aug. 1, 1919.

Mr. Thomas A. Edison:

On yesterday I visited ir. Lieb, of the Hew York MM and Company, relative to the new cable from Laboratory to Hease, as you directed.

"Lieb had their cable copport; ir. Now (promoned wide-by) go over the matter thoroughly with me and them talked it over with both of us. The following is the years of the intervent.

Noither Mr. Lieb nor Mr. Hoo is acquainted with the contractors who have submitted bids for the naw cable. Mr. Lieb referred me to Mr. Narley Osgood and Mr. Carle, of the Public Service Electric Congany, for information regarding them. I will call upon one or both of these gentlemen.

by Davis Moothio Complemy, which are brewed in and which two wheat took before yes took. It was the heady to the constitution of the most state of the property of the control of the cont

Er. Noe suggested that we should excertain the their three are any form or Park regulations so so a death blook surface at which cable was to laid.

If all the state of the s

Mr. Noe wanted to know the size of the present cable. Miscolal tells no that it is made up of various sized, the camillast being 2/0 and the largest 4/0. If. Noe thought, to be acted and secure the least post ble drop, 4/0 would be the propoer size to use. This is the size specified by Baris Electric Commany.

in. No says Orangeberg Physe Conduit is sade of imprognated paper and is chiesed to problem dubte from destruction due to chemical action. In the prediction of the problem of the problem

Copies to:-

THOMAS A. EDISON, PERSONAL

Function:

Memorandum No.

SUBJECT:

- 2 -

Date

which would, it would seem, give adequate support and keep the cable in proper position until such time as the ground settled tightly around it, at which time the support would not be necessary. Those boards would probably not rot away for several years. He doubt care should be used to see that they bear evenly over their whole length on the bottom of the trench.

- ir. Noe recommends a specially-treated from pipe for the conduit under Valley Road. He thinks we can get the small quantity you would require through the New York Subway scople, or, if not, through the New York Editon Company.
- if, lice recommends that productions consequence in an ablate on a cables the contract of bad above to be in accordance with the requirements of the last backward of the last backward of the last reaches a last law past a parameter from the contractors; they to agree to ministain the cable at their own expense during this period. I will arrange of the last recommends that the contractor by the past of the cable at their own expense during this period. I will arrange of the with 2000 wolls between conductors great a period of 20 minutes. He with 2000 wolls between conductors great a period of 20 minutes. He have the contractors.
- I tried to get in lies by give me an estimate of the cost of Layling the coals, to check up the contenter's figures. It is difficult for him to give such figures, the content of the difference in conditions between lies York and the such in the bolls me, however, that Cornapbury liber with screw joint, as specified by Davie, would cost 17f per foot, and secured a gustain from Seroly Insulated Ires and Cable Company, of lies York, on cable as Dilews;

4/0 cable, \$334.10 per 1,000 feet 1/0 " 201.20 " "

(Prices are received for the case of the c

I will make are as to the reliability of Contractor by conference with the Public Service officials mentioned, and if they recommend other contractors probably get in other bids quickly.

Copies to:-

#### THOMAS A. EDISON, PERSONAL

Function: SUBJECT:

- 3 -

Memorandum No.

Date

The specifications of Davis Electric Company have been approved by Mr. Noe, in whom Mr. Lieb soems to ropose his confidence.

I will see if we can buy the cable and conduit to better advantage than the contractors, and if so will got an allowance from the contractor, making the contractor, however, agent responsibility for it as to quality.

As nearly as I can judge, taking into consideration the fact that sees unforeseen conditions may develop, the cost tylanke the complete installation will run between \$6,000 and \$7,000.

I understand you will loave here for your annual camping trip probably on Monday, the 4th instant. Shall I now go ahead with the work without further conference with you, or have you something further to suggest?

Mr. Thomas a Edison

after reading this mens 8/1/19, vary "All nights) grahead"

Relotecon

9/1/19

Copies to:-

1533-1-750-10-18

# Public Service Electric Company

Newark, N. J., Aug. 4, 1919.

Thomas A. Edison, Inc., Att. of Mr. Kellow, Lakeside Avenue, West Orange, N. J.

#### Gentlemen:

In regard to the underground cable which is proposed to be run between your Laboratory and Mr. Edison's house, I would advise make the second advise to the second advise to the second advise to the second advise to the second advise prices per foot, the advantages and disadvantages of the different constructions.

### Fibre and Concrete

3" fibre conduit covered with an envelope of 2" concrete is estimated at 65f per foot. With this construction we would advise using iron pipe foot the Public Service Railway tracks and also under the public Service Railway tracks and also under the public Service Railway for the public service of the Salary and the service that the public service of the service of the service of the foot open installation, on account of the additional protection which may later be necessary in unimproved streets, such as you have along the proposed route. This construction will not deteriorate as rapidly as iron pipe, or fibre pipe laid in the trench without the concrete envelope.

#### Iron Pipe

The cost of installing iron pipe conduit without any outer protection of concrete is estimated to cost 66 per foot although the cost is practicually the case as for fibre conduit incased in concrete, we believe that iron pipe will detroicrete long before the former, and although the pipe may be stronger it would not be advisable to recommend this type of construction under traffic conditions which you will have.

#### Fibre, Concrete at Joints Only

We have made this type of installation only under lawns and other out-of-ho-may places where we are satisfied it will be all the satisfied of the cost of this construction of the cost of this construction of the cost of the construction consider this scheme owing to the soil and property conditions along the road. Thos. A. Edison, Inc. #2

Aug. 4, 1919.

All the above estimates include the cost of ten hand-holes, to be built of concrete with a concrete slab covering and to be set approximately 12" below the surface of the ground.

#### Cable

The cable which we recommend and which is our standard practice to use under smiler contitions in a 4/0 suplex properties to use under smiler contitions, is a 4/0 suplex properties that the 1/6" lead should casing. This cable will withstend a 5,500 volt factory test. In the same dut we propose to draw in a 1/0 here tinned copper strained cable to und as a neutral conductor content of the cable will see that the conductor content of the cable will be under the conductor connected with the usual timed copper connectors. The price of the cable installation per foot is estimated at 98 per foot.

make the total estimate of conduit and calle \$\frac{1}{2}\$.50 per foot, covering the laying of the conduit, excevating and refulling trench, installation and tagging of cable complete from the Laboratory to the house.

For the various places where the feeder is to be tapped for service to other buildings, such taps including conduit and cable, are estimates at 95¢ per foot.

Prom measurements taken by our Mr. W. E. Neyer on August 2nd, the distance between the Laboratory and the house is found to be 2850', of which approximately 200' will be iron pipe conduit. The service into the garage and also the one into the garaner's house, will be iron pipe conduit as it is thought that there will be very little interference at any time at these locations.

If you desire us to take care of this work for you, kindly issue necessary letter or order and we can install the conduit and cable at actual cost.

Trusting that we have covered the matter in such a manner that you may understand our recommendations, which are based throughout on our standard construction, and assuring you that if we may be of any further assistance to you it will be gladly given, I remain

Yours very truly,

E. D. NEPLY NO. E. D. NEPLE BD PANY PLACE LIENVARK, N. J.

E. C. C. Chief Engineer.

WEM/GO

D

August 9, 1919

William Read Howe, Esq.,

MacMahan's Island, Maine.

My dear Judge Howe:

you will resal that I stopped in at your office some wooks or reparting a proposed revented cable from Ir. Edison! Exhernator to his home in the Fack to deliver electric current. After going over the matter again thoroughly with Ir. Rison he decided that he would like to lay a new underground cable instead of the overhead, which I judge is more in line with the withes of yourself and your fellow trustees.

I visited your office a day or two tags to get your formal permission to open the streets of a great sunderground solahe, and your Secretary Mindly promised to format you to that day measures papers for your signature for the secretary to the secretary that the permit secretary that the secreta

I think you will essently have any objection to the opening of the streets when you know that the cash will be laid only shout tenety ninches deep and that the trench for it will be dug only about the width of a shovel. It is proposed to lay a conduct through which the cashe one be drawn, and practically the entire assume of excevation each sky will be refilled the same day. I an informed by the Public Service Company, who have very kindly offered to make the installation as a force to might be refined the same string the streets, which it is firty set of transmit like overed promptly so that three will be not interruption to traffic. The trench will be day just outside of the gutter line so that dirtying my be done absolutely without interruption.

The Public Service people are, of course, thoroughly experienced in this manner of work and will perform it in the best possible manner.

and hope you will kindly let us have your permission so that work may be commoned the early part of meet week.

Yours very truly.

Secretory

August 11, 1919

Mr. E. B. Mayor, Asst. Chief Engineer, Public Service Electric Co., Terminal Building, Howark, N.J.

Dear Lr. Mayer:

Thank you very much for your letter of Angust 4th regarding the new underground cable to run from the Laboratory to Er. Edison's house.

This will confirm telephone conversation in which I savised you, in Mr. Edison's behelf, that Mr. Edison the work started as soon as you can conveniently commence, and I understood that you will have your appearatus on the job tomorrow and will begin work Thursday morning.

I stated to you by telephone that Mr. Edison thinks that the 1/0 neutral wire should be insulated and that, of course, the 4/0 wires should be insulated. He wishes to make a permanent job and wants everything done in first class shape.

I understand that where iron pipe is required, a special pipe yrotected by galvanising, of some such manner, will be used as that it will not be necessary to connect the pipes. We do not want to be compelled to dig up this line for many many years to come, so want the cable to be well protected:

You stated that you would have hr. Mayer call upon me again so that we could figure out the approximate cost of the entire installation and go over any items which hr. Mayor may have to take up, and I shall be glad to see ir. Mayor at his convenience.

I informed Mr. Edison of the willingness of the Public Service Company to undertake this installation for him through the kindness of Mr. Carle and yourself, and he was very much pleased and wished me to thank you very heartly.

Yours very truly.

Secretary.

MW. Eastwood for estimates will

438 Unblic Service Electric Company

> Kc (1957/2, 3. J., sept. 20, 1919. I think of we

Er. Thomas A. Baison.
Att. of Er. R. ... Leilow, Jec., Silad The ampens
Orange, B. J.

Manday All'Ednosday Deur Sir:

Referring to your letter or keytesher 15th regarding an extincte on the installation of a D. C. meter on the Lateratory and of the cable, which is to run to Er. Edizor's rendence, you will find taken a list of material which will be necessary in some part of the production of the same type of service, done according to the rules of this company, and class the theorem type of the production of the company and class the theorem type of the production of the company and class the theorem they are strongly account of the company and class the theorem they are strongly account the company and class the theorem they are strongly account the company and class the theorem they are strongly account the company and class the theorem they are strongly account the company and class the theorem they are strongly account the company and class the theorem they are strongly account the company and class the theorem they are strongly account the company and class the theorem they are strongly account the company and the strongly account the strongly account to the company and the strongly account the strongly acc

und material complete, is \$155.00.

negrous very thirty, Ency Love

Country S Assistant Chief Engineer:

wiii/ge

E 9 150M 2-19

Mr Edin-

wirent going to house for should like to know how much is consumed for accounting purposes and general suformation to your appropriof putting in a meter as this cost?

10/44

October 22,1919

ir. Thomas A. Edison:

The work on the new electric cable has been completed this arterneon and you will be burning current supplied from the Laboratory tonight. There has not been time to got the A O motors out of the house today but this will be attended to tomorrow.

It has taken a long while to complete this job but the delay has been due principally to the fact that the Pablic Service could not get the cable from the manifecturer at an earlier date than they did.

R W KELLOW

Secretary

O.C. to Bre. Rdison



# THOMAS A. EDISON, PERSONAL.

Hovember 28th, 1919

Mr. Thomas A. Edison:

Who new cable from the Laboratory to the house has been down for overall weeks and I have had no couplaints so suggest it he working properly. Noulan't it be nice to write 37. Garle, the chief engineer of the company a note of approxisation for his kindness in arranging for the Public hervice Electric Company to do the job! Lamething like attouch for instance, which will you please sign if it works your ideas?

I have not yet received a bill for the work, which was to be done at their cost. I will submit it to you as soon as it comes in.

Kulow

Ligned by Mrs. Evenion. Nearlest to Mrs. Care May (

November 28th, 1919

Mr. N.A. Carle, Chief Engineer, Public Service Electric Co. Hemark, New Jersey. My dear Sir:

The new onble, which you kindly agreed last summer that your company would lay for mo. from the Laboratory to my residence in Llewellyn Perk, has been completed and in use for several weeks and the job is apparently a first-class one in every respect.

It is a great satisfaction to me to have had the work done by your company in accordance with the most up-to-sate practice. I appreciate also the care exercised by your workmen in opening the read-ways and lowns. The work was done very nicely.

I thank you very sincerely for your kindness in attending to this work for me.

Very truly yours.

#### Edison General File Series 1919, Health and Diet (E-19-39)

This folder contains inquiries relating to Edison's well-known idiosyncrasies in nutrition and sleep habits. Among the items from 1919 is a letter from author and publisher William Feather expressing his belief that "every man needs at least seven or eight hours of sleep every night," along with Edison's response that there is "no actual reason why we should sleep, from a scientific standpoint." Also included is a suggestion by Edison on how to stop the progress of tuberculosis.

Four of the seven documents have been selected. The unselected letters were marked for no answer or did not receive a personal reply from Edison.

Related letters about Edison's diet can be found in E-19-03 (Articles).

# The WILLIAM FEATHER COMPANY

Printers and Publishers

CAXTON BUILDING - - CLEVELAND, OHIO

Until the last & years rover a served of

48 years myself and generous state 8 per. 10, 1919.

48 years myself and generous state 18 hours deally

authorise worked one an average 18 hours deally

Mr. Thomas A. Edison, 476 & Rivers cleap that is a

Mr. Thomas A. Edison, 476 & Rivers cleap that is a

Verage, N. J. Short while they become accussion of

18 of the takes amount of writing.

a considerable part of which is imprintipally—that is,

it is directed to salessen, merchants, and others with

the idea of helping them to make more out of themsloves.

Several times in the last three or four years I have made the statement that every man needs at least seven or eight hours of aleep every night, and that he should get it.

that he should get it.

Each time I make this statement someone challenges it, and does Napoleon and you as examples of men who need only four or five hours of aleep.

Is it a fact that you average only four a five hours? If so, would you advise others to try it?

If it is not asking too much I would greatly appreciate an answer. Under cover attached to this letter I am sending a few of the little magazines which we produce for manufacturers.

Sincerely yours,

Lection Fearty

who worked with me for a number of of then left rejet the habet up used to it, one ocenworkable their That degree on is that it stapes serbufus dous to the a deeper scee If the word has been deffermely a + the our has alone contin do not think anybody was require on taken accept there is reason why we should sleep fro secontafie daint Instead in How Stoetgerland that the Tac which had seed in Just that There many new buildings of the people on the strong at 12 midnight w the towns without lights was in 620 at 830, 4 Che town was a dead one,

80 Loraine mansions Hollway, Endon.
It would fing have England.
It would fing have England.
It would fing have I cam give
Dear Zur Edistra at ip to stop its program
only on your england. wiee you so the biggestthing you have yet done, and bring the promise of life to hundreds of thousands who like myself are suffering from Tuberculosis? You can do in: will ym? very truly yours. A-wwsestin. ct. W. Weston 7928 This letter has been sterilised - No danger.

that is to conclude to practice the taking in Linguis breaking as the rumaning good point of your lungs with perform I had will of summed lung. When you have acquired the hatet you will proposed to be hately and their will give normal degrational mount governors the thorous performal in the give normal degrational in the given normal degrational in the given normal degration full faithful full give many provide means of the full their proposed of the Marrote.

September 16, 1919.

Mr. William Feather, Caxton Building, Cleveland, Ohio.

Dear Mr. Feather:

in regard to slep. Until the last six years, and over a period of 40 years, I and my experimental assistant worked on an average 18 hours deally. Now men found it very difficult to get used to 4 to 5 hours sleep, but in a short time they became accentemed to it and I have never heard of any one of them being injured.

for a number of years and then left, kept up the habit of working long hours. I think any person can get used to it. One remarkable thing that they all agree on is that it stops dressing. This is perhaps due to a desper sleep.

and the sun had shone continuously, I do not think that anybody would require or take sleep. There seems to be no actual reason why we should sleep, from a scientific standpoint.

that the towns which had electric lights had many new buildings and the people were active and on the streets at 12:00 o'clock, midnight, whereas in towns without electric lights, everybody was in bed about 6:00 and the town was a dead one.

Yours very truly,

September 30, 1919.

Mr. A. W. Weston, #80 Loraine Mansions, Holloway, London, Eng.

Doar Sir :-

Your letter of Neptember 15 has been received and shown to Er. Edison. He wishes me to say for him that the investigation you propose is out of his line.

He also says that if you have tubercules is of the lungs he can give you a tin to stop its progress, and that is to practice the taking in of long breaths, so that the remaining good part of your lungs will perform the duty of normal lungs. Then you have acquired the habit you will expense the blood perfectly. This will give normal digestion and functioning, and nature will provide means for stopping the further progress of the microbe.

Yours very truly,

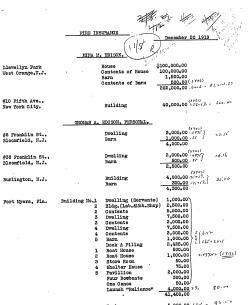
Agst. to Mr. Edison

### Edison General File Series 1919. Honors and Awards [not selected] (E-19-40)

This folder contains correspondence and other documents relating to Edison's awards and honors. Also included are offers of distinctions and awards, as well as invitations to ceremonies, that Edison declined because of his aversion to attending formal events. Similar material can be found in E-19-42 (Invitations). Among the items from 1919 two printed circulars in Swedish and English from the Nobel Prize Committee inviting Edison to nominate candidates for the annual Physics and Chemistry medals.

#### Edison General File Series 1919, Insurance (E-19-41)

This folder contains correspondence and other documents relating to both corporate and personal insurance. The one selected Item for 1919 is a list of fire and other types of insurance held by Edison and his wife Mina Miller Edison on their various properties in West Orange and elsewhere. The unselected material includes documents by Arthur C. Frost of the Insurance Service Dept. regarding Edison's laboratory and factory buildings; reports on protection by fire departments at the Silver Lake works (not related to insurance); unanswered solicitations; and duplicates.



Dook

Crops

5,000,00 /.84 -

1,200,00 - 8.4

9.60

(MR. EDISON PRS HALF)

Kearny, N. J.

Oxford, N. J. (Thomas A. Edison,

and/or M. L.Lusk)

#### FIRE INSURANCE

December 20 1919

#### THOMAS A. EDISON, LABORATORY. West Orange, N. J.

BLDG. NO.	BUILDING.	MACHINERY.	STOOK.
1	12,000	20,000	700/
,	10,000	5,000	0 000 × () Y/35)
ã	9,000	5,000	1,000
4	11,000/	4,000	500
56	110,000	80,000	35,000 \$ 8,756
7	800~	200	* 8,716 I
9	1,500	300 /	50 -
10	1,500	250 -	100
11	2,500	1,250	100
12	1,800	100	-
13	1,200	1,000	
14	150/	500	100
	161,450	117,600	39,350

DRAWINGS

Patterns 60,000,00

. 96

576.00

## INSURANCE OTHER THAN FIRE

MINA M. EDISON.

# Burglary

Llewllyn Park West Orange, H.J.

House

\$2,000.00

27.50

Plate Glass

Llewllyn Park	No.of	Height	Breadth	
West Orange, N.J.	Plates_	in in.	_ in in.	Location of Glass
	1	47	99	East Window in Library-2nd.fl
	1	66	78	Window in West Room-lst-fl
(B3.U8)	1	36	74	Upper Window-Bed Room
( 5)	1	20	74	Lower Window-2nd. Floor.

#### Workmen's Compensation

Llewllyn Park West Orange, N.J.

Covers

7 Inservants 3 Outservants 1 Private Chauffeur

27.50

December 20 1919 THOMAS A. EDISON. PERSONAL. Automobile Liability and Property Damage Covers the following cars. Simplex Locomobile 11806 Cadillac 57115 576628 Ford

> Detroit Electric Detroit Electric THOMAS A. EDISON, LABORATORY.

Ford

Ford Ford

Auto Fire, Theft and Property Damage

Ford No.3096065

Auto Liability. Ford No.3096065

1083977

1433203 2129764

3043

5426

4850

Elevator Public Liability.

Covers elevator in Building No. 5 Passenger & Freight (Electric, Holycke) - 79.04

#### Edison General File Series 1919. Invitations (E-19-42)

This folder contains correspondence and other documents relating to baseusts, luncheons, lectures, meetings with visiting dignitaries, and special events to which Edison was invited. Among the items for 1919 is correspondence with industrialist Charles M. Schwab and art critic Barr Ferree, officials of the Pennsylvania Society of New York, regarding luncheon in honor of Belgian cardinal Désiré-Joseph Mercier, a vocal opponent of the German occupation during World War I. Edison attended the event, at which Mercier praised him for his services during the war, but his wife Mina Miller Edison declined because of a bad cold. Also included is an invitation from journalist and author Frank Dilnot to a dimner in honor of the Earl of Reading, which Edison declined on the grounds that he "would like to come but I can't hear a word." In addition, there are invitations, both declined by Edison, from Adm. George E. Burd to the launching of the battleship USS Tennessee and Bishop Fred B. Fisher to the Centenary Exhibition of American Methodist Missions.

Approximately 10 percent of the documents have been selected. The underdected items include letters, some with routine marginalia by Edison, that received routine replies stating that the inventor could not attend because he was away or busy experimenting; printed tickets; menus; and other event-related documents.

.President: FRANK DILNOT The Association of Foreign Press 1907 Times Blds. NEW YORK retary and Treasurer: PERCY S. BULLEN Telephone Rector \$315 Correspondents in the United States Evecutive Committee S. LEVY LAWSON Renters New York New York, April 15,1919. Mr. Thomas A.Edison. Sugramed like to come best I can't hear a word or I get Llewellyn Park, Orange, N.J. home so late that I will have Dear Sir:-The Association of Foreign Correspondents desires heartily to invite you to be their guest at palaner to be given to the Earl of Resented at the Plaze Hotel of Thril 20th, We hope to make the occasion a tribute to him as an intermetable figure. I am desirous of placing on the programme brief expressions of opinion about him in one or two sentences Toom leading Americans. We shall deeply appreciate a word or two tromsyou with regard to Lord Reading if you feel you can give it to us. Yours sincerely.

Rule Three.—The qualification for membership shall be the regular performance of the duties of an authenticated correspondent of the Press obroad. Rule Five.—No Germans or their allies are eligible for membership.

3 minutes

April 18,1919

Mr. Fronk Dilnot, President, The Association of Foreign Press Correspondents in the United States, 1207 Times 9145.

Dear Sir:-

Allow me to express my appreciation of the invitation of the Association of Foreign Correspondents to be their guest at a Dinner to be given to the Arl of Reading on April 24th.

I would like to mooset, but the fact is I am so derf I cannot hear a word of what is going on. Beside, I would get home so late that it would interfere with some important work on hand. So, I shall have to give up the idee with regret.

Yours very truly,

4/6955.

### UNITED STATES NAVY YARD

NEW YORK, N. Y.

Aptil 24, 1919.

My dear Mr. Edison:

I am enclosing a ticket to the launching stand for the launching of the battleship TENNESSEE on Wednesday next and hope that you may be able to be present.

I hoped to be able to come down and see you at your laboratory ere this but we have had such a swarm of ships come to New York since your return from Florida that I have been unable to get away from the yard even for an atternoca.

Evenings put in lots of time with the phonograph.

One of the late records is a violin record by Dorothy Hoyle of a melloy of South airs that is remarkable for the volume of tone. I think that this must be due to some scoptional of recombinates in connection with the recording exceptional of control of the recording of the record of the recording of the recording as a whole is greatly improved from what it was but an impact of the recording as a whole is greatly improved from what it was but and the record of the recording of the recording as a whole is greatly improved from what it was but an Erobably there is a demand for these foolish popular songs by Loo Feitz and his olique but it is a lift that it is so.

Instrumental tones are so immeasurably superior to vocal tones in the reproduction [and in fact in the original] that I think there should be a larger proportion of instrumental records made; not jazz band records either. Instrumental soles with orchestra accompanient are almost always good and so are the combination of violin, flute, cello and harp. Orchestra records are generally good but it seems to be difficult to get the proper prominence of the different instruments although there are many records in which this is

Of the voices, the baritone records are best and the bass next but it takes a very great soprano to record high notes that are not shrill. When a medicore soprano sings one of the Tin Fan Alley songs no phonograph can make the result very pleasing.

The viclin seems to me to be the most uncertain of the instruments, which might be expected, as its tone is more a personal matter of the viclinist than the other instruments, provided a fairly good viclin is used. I hope that you are going to take up a personal control of the phonograph output for I should think it would be the most interesting occupation that one could have.

I hope you enjoyed the vacation in Florida and that I may see you at the launching.

Very sincerely yours,

Mr. Thomas A. Edison, Edison Laboratory, Orange, N. J.

THE SECRETARY OF THE NAVY

REQUESTS THE HONOR OF

COMPANY AT THE LAUNCHING OF THE

UNITED STATES BATTLE SHIP TENNESSEE

ON THE MORNING OF WEDNESDAY, THE THIRTIETH OF APRIL,

ONE THOUSAND NINE HUNDRED AND NINETEEN,

NOT TRANSFERABLE

AT NINE FORTY-FIVE O'CLOCK, AT THE NAVY YARD, NEW YORK.

PLEASE RETAIN THIS CARD TO BE SHOWN WHEN REQUIRED.

YOU ARE REQUESTED TO ARRIVE AT YARD NOT LATER THAN 8:00 A. M.

April 28,1919.

Rear Admiral G. E. Burd, U.S. N., United States Navy Yard, New York, N.Y.

My dear Admiral:

I approxiate very much your linaness in sending me a ticket to the launching stand for the launching of the battleship Tennessee on Wednesday. If I were not tied up which some important work that needs my attention I should be glad to aveil myself of your kind invitation.

I am hoping for an opportunity to see you before long and heve a nice that with you about music.

Sincorely yours.

Δ/7045.



Form 1304

LASS OF SERVICE SYMMOUT

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RECEIVED ATOR. MAIN ST. & ESSEX AVE ORANGE N. J.

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FY COLUMBUS

T A EDISON ORANGE NJ

RURAL DAY SATURDAY JULY TWELVE WILL BE THE CLOSING DAY

OF THE GREAT METHODIST CENTENARY EMPOUITING AT COLUMBUS ONTO WE

ARE FULLY EAPENT ON ATTENDANCE OF MORE THAN THE HUMBREN

THOUSAND THAT DAY WE WANT TO HOROR YOU OF THIS

BAY AND MOST UNGENTLY REQUEST YOUR PRESENCE WE SHALL MEET

ALL YOUR EXPENSES AND A LIBERAL HOMORAHIUM PLEASE WIRE US

TEMEDIATELY THAT YOU WILL COME

JULY 2-19 745 AM - BRED B FISHER ASSOCIATE GENT DIR CENTYEX

POSTAL TELEGRAPH - COMMERCIAL CABLES

- In the second second

ut Ban releasement contered to indicated by eleval after the number of words:-"H. L." (Night I. I. III ... III

Calgary Alta July 25th, 1919.

Thos A Edison Inc, Orange, NJ. Laboratories

Your kind letter huly 8th in manuer to our invisation to deviend Gamadian Industrial Ourgress at Osligary Gamadian Lawring Company and the company of the co

Se dend 1/9 k. A. Brown .

Send of the Mill President Alberta Industrial Development association association change plans. The A. Teleson.

Dehwab - III Brown My.

Your having trouble with
my stomach HH field o

poorly couldn't go although

Y would be delighted to

do so Affile:

(disor

Sent Postal - 8/18/19 - 3:15 1. 7.

Schwab, Charles

Buidso -> Cardinal Mercier

LORETTO, PA. September 26th, 1919.

My dear Mr. Edison: ---

The Pennsylvania Society are giving a Luncheon to Cardinal Mercier at the Waldorf-Astoria, at 12:30 P.M., October 11th. As representing the greatest man in the United States in its development and standing for the highest type of Americanism. I am very anxious to have you as a guest at the Luncheon. It will be short and only take an hour of your time. I therefore, in my own name and in the name of the Society, tender you an invitation to be present. I hope that nothing will prevent your coming. We shall all be greatly pleased to have you. Kindly let me know. Sincerely yours,

Thomas A. Edison, Esq., EAST ORANGE, N.J.

My dear M. Schwab:

of greatly appreciate the vivitation Extended by you and the Commy wante bouchy to be a guest at the Luncheen to Continue meries on Celoter 118. It gives me much pleasure to everyte and I stall by to be there. yours suicered, CHARLES M. SCHWAB 111 BROADWAY , NEW YORK

LORETTO, PA. October 1st, 1919.

Dear Mr. Edison: ---

I thank you for your letter of September 29th.

I am sure there is nobody in America that the Cardinal will be so pleased to meet and greet as your own good self. You are a brick, always on hand to help a friend out in time of need.

I personally look forward with great pleasure to

seeing you again.

Eincerely yours,
OMSchwat

Thomas A. Edison, Esq.,

ORANGE, N.J.



# The Pennfylvania Society

CHARLES M. SCHWAR, \*\*\*\*\*\*\*\*\*

THEODORE P. SHONTO, PRAY INCEPARADERY

JAMES GAYLEY, THISE WEAPHRICESY

BARR FERREE, SIRKETOR AND SECRITARY

WILLIAM GUGGENHEIM, TRAKSURERY

RT. REV. THOMAS J. GARLAND, D. D., CHAPLAN

OFFICE OF THE SOCIETY 249 WEST 13TH STREET

NEW YORK Uctober 8,1919

Mrs Thomas A Edison,

orange, N J

wy dear Mrs Edison

It gives me great pleasure to extend to you, for and on behalf of the Society, a cordial invitation to be our guest at the Luncheon for Cardinal Mercier on Saturday, Waldorf-Asjoria, October II at 12.30 P.M.

Ladies are taking part in the Luncheon, and we will be very pleased indeed, if you would accept our invitation.

Mr Edison, as you doubtless know, will be the guest of the Society, and will be seated at the guest table. But I have already marked a place for you with Mrs Joshua A Haffield, who have a very conveniently located table, and who will be delighted to mave you. If you will pardon a personal word I may add that she is one of the most delightful and charming of women. You could not be better placed.

I enclose two tickets, one for you and one for Mr Edison. It is probable that Mr Schwab will send Mr Edison his ticket; in this case the duplicate may be destroyed.

Yours very truly

Director

P

October Thirtoenth, Nineteen Mineteen.

Sy door Mr. Ferree:

the courtosy of your invitation of colors alto the courtosy of your invitation of colors alto the the puest of the Feumaylenain Society at the Gardinal Zerder Lundhoon. Unfortunately, a sewere odd prevented my accepting the invitation, which I very greatly reprettial.

Eincorely.

Er. Barr Ferren. Director & Secretary 249 West 13th Street. New York City.

### Edison General File Series 1919. Lectures (E-19-43)

This folder contains requests for Edison or members of his staff to deliver lectures or speeches. Among the items for 1919 is a letter from Edison's personal assistant William H. Meadowcroft to Ahrur Williams of the New York Edison Co. explaining that "Mr. Edison never speaks in public."

Approximately 15 percent of the documents have been selected. The unselected items are invitations that received a standard reply stating that Edison never gave public addresses.

ARTHUR WILLIAMS IRVING PLACE AND FIFTEENTH STREET NEW YORK W

December 22 1919

William H Meadowcroft Esq C/O Thomas A Edison Inc Lakeside Avenue West Orange New Jersey

ماييه ما الماسي م

Dear Mr Meadowcroft

Enclosed is a letter which I have received from Mr Thomae Alexander, regarding the meeting in the interests of "Safety First for Children" to be held at the Capitol Theatre, Broadway at Sist Street, on the morning of January tenth. As you will see, Nrs Moskowitz is very anxious to get Mr Edison to come and speak at the meeting. I am forwarding this letter to you in the hope that you will bring it to Mr Edison's attention.

Very sincerely yours

(Enclosure)

December 23,1919.

Mr. Arthur Williams, Irving Place and 15th Street, New York, N.Y.

Dear Mr. Williams:

I have received your letter of December 22d, enclosing one from Mr. Thomas Alexander, regarding the meeting to be held on January 10th.

I have not shown this to Mr. Edison because I have his general directions to excuse him from attending any meetings whatever this Winter.

He has an enormous lot of sork on hand in connection with ones special investigations that is admins, and which will require his personal attention for many weeks to come, and he ices not wish to have anythins come in between him and this work. Will you please, therefore, explain to Ur. Alexander.

Possibly you may not be aware of it, but Mr. Edison never speaks in public ware of it, but I have ever known was where he usid a few words to the Committee of striking Longshoremen when he was with you a few weeks ago.

With kindest regards and Compliments of the Season, I remain,

Very sincerely.

Assistant to Mr. Edison.

P.S. I am returning all your enclosures herewith.

### Edison General File Series 1919. Legal -- General (E-19-44)

This folder contains documents relating to general legal topics. The one item for 1919 is a telegram to Export Division manager Walter Stevens about Edisor's desire to have a list of specific breaches of contract. The case or issue involved is not specified.

Ichegrann

Walter Stevens

Thos a . Edwin his .

110 nassan St., 11.4.

Do not forget that last of specific breadles of contract - Mr. Edwar anxious to have some

### Edison General File Series 1919. Legal -- Litigation (E-19-45)

This folder contains documents concerning legal cases involving Edison or companies in which he had an interest. The two Items for 1919 consist of a bill of complaint and answer of defendant in *United States of America v. Allas Portland Cement Co. et al.*, a price-tiking case in which the Edison Portland Cement Co. was a co-defendant. Both printed documents bear extensive handwritten comments by Edison. In a notation on the cover of the defendant's answer, the inventor expresses the opinion that the case was initiated by U.S. Attorney General A. Mitchell Palmer because "he wants to be president."

Both documents have been selected.

D (1919)

IN THE

## District Court of the United States

DISTRICT OF NEW JERSEY.
In Equity.

UNITED STATES OF AMERICA,
Plaintiff,

THE ATLAS PORTLAND CEMENT COM-PANY, Allentown Portland Cement Company, Alpha Portland Cement Company, Bath Portland Cement Company, Coplay Cement Manufacturing Company, Dexter Portland Cement Company, The Edison Portland Cement Company, Giant Portland Cement Company, Glens Falls Portland Cement Company, Hercules Cement Corporation, Knickerhocker Portland Cement Company, Lawrence Cement Company, Lehigh Portland Cement Company, Nazareth Portland Cement Company, Penn-Allen Cement Company. Pennsylvania Cement Company, Phoenix Portland Cement Company, Security Cement and Lime Company, and The Vulcanite Portland Cement Company, all corporations,

Defendants.

Bill of

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### Bill of Complaint. I.

### The Parties.

The United States of America, by its attorney for the District of New Jersey, acting under the instructions of the Attorney-General, brings this bill of complaint against the defendant corporations, which are engaged in the manufacture of Portland cement, in the States of Pennsylvania. New Jersey, New York, Maryland and West Virginia, as follows:

State of

Name of Defendant. Incorporation. Location of Mills. The Atlas Portland Ce- Pennsylvania Coplay, Pa., Northampton, Pa., Hud-son, N. Y. ment Company

Evansville, Pa. Allentown Portland Ce- New Jersey

ment Company Manheim, W. Va., Alpha, N. J., Mar-Alpha Portland Cement New Jersey Company tins Creek, Pa., Cementon, N. Y.

Bath Portland Cement Pennsylvania Bath, Pa. Company Coplay Cement Manu- Pennsylvania Coplay and Saylors, Pa. facturing Company

Dexter Portland Ce- Pennsylvania Nazareth, Pa. ment Company The Edison Portland New Jersey New Village, N. J. Cement Company

Giant Portland Cement Delaware Egypt, Pa., and Nor-folk, Va. Company Glens Falls, N. Y. Glens Falls Portland New York

Cement Company Hercules Cement Cor-Hercules, Pa.

poration

Bill of Complaint. State of

Location of Mills. Name of Defendant. Incorporation. Hudson, N. Y. Knickerbocker Port- New York land Cement Com-

pany Lawrence Cement Com- Pennsylvania Siegfried, Pa.

Lehigh Portland Ce- Pennsylvania Ormrod, West Conlay, Fogelsville and ment Company Pa.; Newcastle,

Fordwick, Va. Nazareth Portland Ce- Pennsylvania Bath, Pa.

ment Company Penn-Allen Cement Pennsylvania Nazareth, Pa. Company Pennsylvania Gement Pennsylvania Bath, Pa.

Phoenix Portland Ce- Pennsylvania Nazareth, Pa.

Security Cement and West Virginia Security, Md., Berkeley, W. Va. Lime Company Vulcanite, N. J. The Vulcanite Portland New Jersey

II.

Cement Company

### The Jurisdiction.

The plaintiff brings this bill of complaint to restrain the defendants from further engaging, in this district and elsewhere, in violation of the Act of Congress of July 2, 1890, entitled, "An Act to Protect Trade and Commerce against Unlawful Restraints and Monopolies" (26 Stat., 209) and against the public policy of the United States, in a combination and conspiracy, in restraint of interstate trade and commerce consisting in sales

Trailet

by the defendants, of the Portland cement produced at their said mills, to dealers, contractors, and consumers throughout this district and all the

and consumers throughout this district and all the aforesaid States; and in transportation of such cement, over the lines of common carriers, to all points of delivery throughout this district and all the aforesaid States.

### TII.

### The Commodity.

Portland cement is the product of rissing in kills n closes mixture of limestone or mart, and clay or shale, and pulverizing the resultant clinker in mills. It is a prime necessity as a bulding material throughout the United States, used in construction of houses, office buildings, factories, silos, foundations, walls, bridges, roads, dams, tunnels, public works, ships, and so forth.

### IV.

### Former Conditions.

### (1) Selling Prices:

Prom 1905 to 1911 the defendants were organized to logether as members of the Association of CLI-censed Cement-Manufacturers. The members of that association-were licensed, by a corporation organized by certain of the defendants for that purpose, under a certain patent covering an apparatus employed in a particular process of manufacturing Portland cement. They were required, in connection with such licenses to sell Portland cement a certain scheduled "delivered prices"

with freight paid, which were uniform for all the licensees, for any given point of delivery.

In 1912, it was adjudged by a Court of Appeals that the said patent did not prevent the effective employment of the same process by means of other apparatus; and the said licenses under said patent, and the said association were thereupon aban-

doned.

Nevertheless, the defendants continued to consider it regular for all to make the same price at any given point of delivery regardless of differences amongst them in costs of production and in freight rates from their mills to the points of delivery and for all to adhere to the prices made by

the derodants doing the largest business.

Yo findlight such uniform altherence to prices established by the largest defendants one of these, the Alpha Portland Cament Company, distributed to the others so-called "Preight Books" purporting to show-freight-trates from the Alpha mills to the several points of delivery; and it published its so-called "mill prices" for cement from time to time; so that all might readily compute and adhere to its "delivered prices."

However, uniform selling prices were not consistently adhered to, and many defendants made lower prices than other defendants, in competition with them. Such competition prevailed particularly in the first part of the year 1915, when it resulted in a general reduction of defendants prices to dealers, contractors and consumers, to about 65 cents per barrel, exclusive of freight.

### (2) Amount of Production: From time to time prior to the year 1915, the

The how person where contine then they it was under the Panama Caroal was alanted December all the the the polarism the transaction to continue the the polarism the transaction of the second of the transaction to the second of Hat true none that I can remarked were one of two are usen

> several defendants built new and additional mills at various points, and so increased the production capacity of their mills in the aggregate to about 50,000,000 barrels of Portland coment for the year 1915. — Total design of the year

Contracts for Future Delivery:

Prior to 1915, the defendants, in addition to taking and filling orders for immediate delivery, freely entered into contracts with dealers, contractors and consumers for the future delivery of large amounts of Portland cement, at prices specified as of the dates of the contracts. In terms, such contracts were limited to cover amounts of cement represented as necessary for designated construction work already undertaken or definitely projected. In practice, many defendants entered into contracts of that character designating the same construction work which was designated in other such contracts made by other defendants, and specifying amounts of cement in excess of the amounts necessary for the designated construction work; and they freely delivered cement under such contracts to the full amounts specified. The aggregate amount of cement subject at one time to future delivery by the defendants, according to the terms of such contracts, at prices specified as of the dates of the contracts, was in excess of 18,000,000 barrels, in or about the year 1915.

### The Conspiracy.

In the year 1915, and continuously thereafter to the present time, the defendants each and all, in

violation of the said Act of Congress, and against the public policy of the United States, knowingly engaged in a combination and conspiracy in restraint of the said interstate trade and commerce in Portland cement-

(1) To restrict the defendants' aggregate production of such cement (aggregate capacity being 50,000,000 barrels per annum) to about 30,000,-000 barrels in 1915, about 29,000,000 barrels in 1916, about 29,000,000 barrels in 1917 and about 23,000,000 barrels in 1918; and

(2) To decrease the aggregate amount of cement under contract to be delivered by the defendants in the future, at prices specified as of the dates of the contracts, from much more than 18,000,000 barrels, to about 18,000,000 barrels as of June 1, 1917, about 14,000,000 barrels as of June 1. 1918, and about 4,000,000 barrels as of June 1, 1919;

(3) To sell cement at "delivered prices" (with freight paid) which were uniform at any one time amongst all the defendants for cement for any given point of delivery; and to increase such "delivered prices" from time to time enough to increase by about 200 per cent. the prices per barrel (exclusive of freight) received by the defendants (from about 65) cents in 1915 to about \$1.85 at pres-

All by the means stated below

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Bill of Complaint.

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Bill of Complaint.

The Means.

(1) The Cement Manufacturers' Protective Association:

The defendants created, in the latter part of the year 1915, and in the first part of the year, 1916, and have continued up to the present time, an unincorporated association amongst themselves, with offices formerly at Philadelphia, Pennsylvania, and now at 19 West 44th Street, New York City. They joined the said association as members, and paid its expenses pro rata according to the volume of business done by each, and they regularly attended monthly meetings of the association at its offices, in the persons of their authorized officers and representatives. They provided the association with a salaried manager and a force of clerical assistants, and with a force of traveling and investigating engineers. The defendants furnished the manager of the

and association with ruli information as to their respective amounts of production, and contrasts for future delivery, and instructed him to compile and distribute such information to all the defendants, as specified below. They also instructed the traveling engineers of the association to make investigations at the request of individual defendants, concerning the contracts of any or specified defendants, for future of the defendants concerned therein, and to all the defendants conterned therein, and to all the defendants conterned therein, as specified below. They also instructed the manager of the association to compile, print and distribute to all the defendants uniform helping To lettralate Com Low whole says Mrs must be love

books called "Preight Rooks," to be used by the defendants in computing uniform prices for any given point of delivery, as described below.

They did all the things specified to two pre-decding paragraphs with the purpose and effect of bringing about restriction of the amount of cement approached, reduction in the amount of comment of produced, reduction in the amount of comment and of the produced from any given point of delivery, and in the purpose of the produced from any given point of delivery, and in the produced from the

creases of such prices, as stated below.

(2) Restriction of Amount of Cement Produced:

(a) Many of the larger and more prominent relevant enterprise their authorized officers and appreciation of the control of the

(b) All the defendants turnished the manager of their said Association with statements showing their several military positives for the production of their several military in the production of the production o

Every one withe lieueness Known thom My films the Coepnesty, but net the output atthough that is every to assente

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Bill of Complaint.

tion as to their respective amounts of production from time to time, and instructed him to compile and distribute each month, to all the defendants, comparative tables of figures showing all their several amounts of production for the clapsed part of the current year, and for the corresponding part of the preceding year. Such tables were so distributed, and showed to all the defendants the comparatively low amounts of production by those defendants who had shut down their mills or had operated them at less than full capacity.

(c) Upon consideration of the comparatively low production of many defendants, as shown by the foregoing tables, many other defendants shut down their mills from time to time, and operated them at less than full capacity at other times. An effective agreement was brought about

amongst the defendants, whereby each defendant, in consideration of past or future restriction of production by other defendants, restricted its annual production to substantially less than the capacity of its mills, and, in many cases, to substantially less than its former annual production; and whereby the aggregate production of all the defendants was restricted to about 30,000,000 barrels in 1915, about 29,000,000 barrels in 1916, about 29,000,000 barrels in 1917, and about 23,000,000 barrels in 1918-their aggregate production capacity being about 50,000,000 barrels.

(3) Reduction of amount of cement contractually subject to future delivery at former prices:

(a) Many of the larger and more prominent defendants repeatedly declared to the other defend-

The dawyer that drew this bill meet be a 18th rater,

ants that the delivery of large amounts of cement under contracts for future delivery, at prices specid as of the dates of the contracts, was a hinrance to the establishment of higher prices and as detrimental to the interests of the cement inlustry; and they characterized contracts of that character providing for the delivery of larger amounts of cement than were actually necessary for specific construction work already undertaken or definitely projected, or duplicating other contracts made by other defendants which specified the same construction work as "fake" contracts; and they characterized deliveries under such contracts in excess of the actual requirements of specilie construction work already undertaken or definitely projected, as reprehensible. They also declared that they would submit to an investigation of their contracts in behalf of all the defendants. and that they would cancel such contracts in so

actual requirements of the construction work therein specified. They also declared to all the defendant, that they expected that all would do the fendants that they expected that all would do the (b) Thereupon the defendants furnished to the manager of the said Association full information as to the details of each contract made by each defendant for the future delivery of Portland cement, and they instructed the manager of the association to compile and tabulate such information for all the defendants, and to furnish copies

of such compilations and tabulations to them all.

Thereafter such information was furnished and

far as they were found to provide for the delivery of cement in excess of, or in duplication of, the

1

### Bill of Complaint.

such compilations and tabulations made and distributed each month. The defendants also instructed the traveling engineers of the said Association to investigate, at the request of any defendant, the construction work designated in any such contract and the question of priority as between two or more such contracts made by different defendants designating the same construction work; and to report, through the manager of the said Association, the facts discovered in each Such investigation, to all the defendants therein 3 concerned. The defendants also reported to the t manager of the said Association, and instructed him to communicate to all the defendants, all cancelations made by any defendant of its contracts in so far as they were found to exceed the actual Inecessities of specific construction work already o'undertaken or definitely projected, or were found to duplicate previous contracts by any other defendant covering the same construction work. Thus many cancellations of many such contracts by many of the defendants were reported to all the other defendants.

(c) In consideration of the cancelations of conrecast hus reported by certain derionates, many other defendants made similar cancelations of heir contracts, both upon their own initiative and upon investigation requested by other defendants. An effective agreement was brought about smongst the defendants whereby each canceled large part of its contract of the contract of the large part of its catherent of former prices, in consideration of similar cancelations by the other defendants; and whereby the aggregate amount of 13

### Bill of Complaint.

comeal under contract to be delivered by the defendants in the future, at prices specified as of the dates of the contracts, was reduced from much more than 18,00,000 barrels as obout 1,8,00,000 barrels as of June 1, 1917, about 1,400,000 barrels as of June 1, 1918, and about 4,000,000 barrels as of June 1, 1918, and about 4,000,000 barrels as of June 1, 1910. Thus the delivery one, and consumers, and consumers are consumers, and consumers are consumers, and consumers are consumers, and consumers are consumers and consumers and consumers are consumers.

(4) Fixing Uniform and Increased Selling Prices:
The defendants made mutual oral agreements

The delendants made initial oral ages to co-operate in mogst themselves, intending to co-operate in selling Portland cement at uniform and increased prices, as follows:

They instructed the manager of the said association.

They instructed the manager of the said association to take over from the Alipha Portland Geneity to the take over from the Alipha Portland Geneity of the property of the pro

So sollows: As a basic element of the "delivered price," the defendants charged the highest so-called "mill price" established and published as effective for the time being by any of the three largest and most, important defendants—the Alas Portland Cament Company, the Alpha Portland Cement Company, and the Lehigh Portland Gement Company, Alfrequent intervals a new and higher "mill price"

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was established by one or more of those defend-

The defendants added to such "mill price" as freight, a charge computed at the so-called "freight rate" shown in the said uniform "Freight Books" as applicable on shipments to the given point of delivery from the nearest "basing point" shown

in such books. The defendants added to such charges, during certain periods, upon the instruction of a committee of their said association, a fixed additional amount per barrel on all shipments to all points of delivery, as covering upon an average, recent advances in actual freight rates to certain of the

points of delivery. The several defendants also reported to the manager of the said association, for monthly communication to all the defendants, the prices made by each in each contract for the future delivery of cement; and each defendant communicated to other defendants, upon their request, the price at which it had sold cement in any given transaction for immediate delivery.

defendants to have deviated from the "delivered prices" fixed as described above, the offender's representatives were orally remonstrated with by the representatives of the other defendants, both singly and in groups, and were told that they had failed to co-operate, and that they were guilty of bad practice detrimental to the cement indus-

When any defendant was discovered by other

An effective agreement was brought about amongst the defendants whereby, each acting in

### 15 Bill of Complaint.

consideration of the action of the others, all adhered to a certain fixed "delivered price" for Portland cement for any given point of delivery, based on and including the highest "mill price" published by any of the largest and most prominent defendants, with a fixed amount added thereto as freight; and whereby such "mill price" was successively increased, from about 65 cents per barrel in 1915, to about \$1.85 per barrel at the present time; so as to make uniform, and to increase to the extent of the difference between those two "mill prices" the "delivered prices" of all the defendants, for any given point of delivery.

1 Cant remember 650 un 1915 Humk it

+ a Spreade Summarily stated, the said unlawful combination and conspiracy has resulted, during the period from 1915 to 1919, in greatly restricting the production of Portland cement by the defendants, in greatly reducing the amount of such cement subject to future delivery by them at former prices, Mt.tt., 4 and in more than doubling, and approximately trebling, the prices, exclusive of freight, received by the defendants and paid by the dealers, contractors, and consumers throughout the Eastern States aforesaid-thus largely contributing to the prevailing enormous cost of necessities now imposing a heavy burden on the public.

littly ded he leseon out our trying to staf bag or descount abuse

# Bill of Complaint.

### The Prayer.

Wherefore plaintiff prays:

In it be adjudged that the defendants aforesaid have been and are engaged in a combination
and conspiracy in restraint of intersalte trade and
commerce in Portlant cement in the manner and
by the means hereinabove described, in violation
of the Act of Congress of July 2, 1890 (28 Stat.)

of the Act of Congress 81 any 52 of the United S109, and against the public policy of the United S100, and against the public policy of the United S100, and the public policy of the United S100, and the United S100, and the United S100, and combination and conspiracy, or any other of like character and effect, and particularly from further employing any or all of the above described means of carrying out such combination and conspiracy.

That plaintiff have such other, further, and general relief as the nature of the case may require and the Court deem just.

JOSEPH L. BODINE,

United States Attorney, District of New Jersey.

A. Mitchell Palmer,
Attorncy-General.
C. B. Ames,
Assistant to the Attorncy-General.
Henry S. Mitchell,
Special Assistant to the Attorncy-General.

August, 1919.

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### Motion For Leave to File Interrogatories.

IN THE

DISTRICT COURT OF THE UNITED STATES,

DISTRICT OF NEW JERSEY.

In Equity.

UNITED STATES OF AMERICA, Plaintiff,

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THE ATLAS PORTLAND CEMENT COM-PANY, Allentown Portland Cement Company, Alpha Portland Cement Company, Bath Portland Cement Company, Coplay Cement Manufacturing Company, Dexter Portland Cement Company, The Edison Portland Cement Company, Giant Portland Cement Company, Glens Falls Portland Cement Company, Hercules Cement Corporation, Knickerbocker Portland Cement Company, Lawrence Cement Company, Lehigh Portland Cement Company, Nazareth Portland Cement Company, Penn-Allen Cement Company. Pennsylvania Cement Company, Phoenix Portland Cement Company, Security Cement and Lime Company, and The Vulcanite Portland Cement Company, all corporations, Defendants.

The plaintiff now moves for leave, under Equity

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Interrogatories.

Rule 58, to file the subjoined interregatories, to be answered in health of each defendant corporation, by an officer thereof having knowledge of the facts to be disclosed. The reasons for filing said interrogatories is that the facts thereby sought to be elicited are pocularly within the knowledge of the officers of the defendant corporations, and are recorded in the record hools of said corporations kept under the custody and the property of the material to the said corporation of the said corporation of the material to the said corporation of plaintiff's case.

Special Assistant to the Attorney-General.

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### INTERROGATORIES.

### First.

What were the defendant's full "mill prices" (seclusive of freight, long chungs, etc.) per harred for Portland cement (on shipments by milrond to points of delivery near to the decendant's mills) from 1910 to 1910 inclusive? Let the answer show such "mill prices" in chronological order, and the precise dates when each took effect, and when each was discontinued. If during any particular period prior to January 1, 1915, but not thereafter, the defendant's "mill prices" as above described fluctuated continuously, a statement to that effect, showing the maximum and minimum limits of such fluctuation, may be made in answer to this question for such particular period.

### Second.

What were the defendant's "delivered prices," per harrel for Portland cement (with freight paid, hat exclusive of larg charges, etc.) to (a) dealers, (b) contractors, (c) consumers, in chronological order, with the precise dates when each such price became effective and was discontinued, from pito to 1910 inclusive? Answer this question separately for each of the following points of delivery:

Augusta, Maine.
Concord, New Hampshire.
Montpelier, Vermont.
Worcester, Massachusetts.
Kingston, Bhode Island.
Hartford, Connecticut.
Schenectady, New York.

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Monticello, New York. Rochester, New York. Montrose, Pennsylvania. York, Pennsylvania. Scranton, Pennsylvania.

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Mt. Holly, New Jersey.
Paterson, New Jersey.
Wilmington, Delaware.
Baltimore, Maryland.
Washington, D. C.
Charleston, West Virginia.

Richmond, Virginia.

If during any particular period prior to January 1, 1915, but not thereafter, the defendants "delivered prices" at any such point of delivery fluctuated continuously, a stalement to that effect, showing the maximum and minimum limits of such fluctuation, may be made in answer to this second interrogatory, for such particular period and noint of delivery.

### Third

What was the precise method by which the defendant computed the "delivered prices" set forth in its answer to the second interrogatory?

Note. Each of the foregoing interrogatories is to be answered by each corporation defendant through one of its officers having knowledge of the facts to be disclosed.

### Order.

It is hereby ordered, upon the foregoing motion of the plaintiff, that the foregoing interrogatories Interrogatories.

be filed; and that they be answered, in accordance with Equity Rule 58, in behalf of each defendant corporation, upon the oath of one of its officers having knowledge of the facts disclosed.

J. WARREN DAVIS.

ARREN DAVIS. District Judge.

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Then curred tell the lake then curred of Cooplass, etc.
Then curred of Cooplass, etc.
It would show that I gip to I gip's prices conserved to the cooplass of I gip's by the cooplass o

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District Court of the United States, DISTRICT OF NEW JERSEY.

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THE ATLAS PORTLAND CEMENT COMPANY, et al., Defendants.

ANSWER OF DEFENDANT.

The is should by prelmer who wants to 62

president.

The Edison Portland bound for fancy

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# District Court of the United States,

DISTRICT OF NEW JERSEY.

UNITED STATES OF AMERICA,
Plaintiff.

vs.

THE ATLAS PORTLAND CEMENT COMPANY, Allentown Portland Cement

Company, Alpha Portland Cement Company, Bath Portland Cement Company, Coplay Cement Manufacturing Company, Dexter Portland Cement Company, The Edison Portland Cement Company, Giant Portland Cement Company, Glens In Equity Falls Portland Cement Company, No. 2274. Herenles Cement Corporation, Kniekerbocker Portland Cement Company, Lawrence Cement Company, Lehigh Portland Cement Company, Nazareth Portland Cement Company, Penn-Allen Cement Company, Pennsylvania Cement Company, Phoenix Portland Cement Company, Security Cement and Lime Company, and The Vulcanite Portland Cement Company, all corporations, Defendants.

The Edwin Portland Coment Company, named as one of the defendants in the above entitled cause, answering the bill of complaint herein, says:—

I.

This defendant admits that it is a corporation organized and existing under the laws of the State of Atward and engaged in the manufacture of Portland coment at Atward Villegia, in the State of Atward for the State of T

This defendant denies that it is engaged or has engaged in any combination or conspiracy, in restraint of interstate trade or commerce, in violation of any Act of Congress, or at all.

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Portland cement is the finely pulverized product resulting from the coliciation to heighest fusion in intimate mixture of properly proportioned argillaceous and enlawrous nationals, which materials have form and enlawrous nationals, which materials have befound available at different times in different forms and replaces, with advances in chemical and geological theory defined and generally marketed by reference to stander and entering the specification and tests and is a staple article of fixed edited and generally marketed by reference to standers. Portland cement is never as constrained and tests and is a staple article of fixed editation. The competition affecting the sale of Portlandcement is between individual mannefactures of the stand-

ard product, between different geographical localities where the standard product is manufactured and between Portland cement and other construction materials.

IV.

Answering the allegations of sub-division IV, paragraph (1) of the bill of complaint, this defendant denies that from 1905 to 1911 the defendants were organized together as members of the Association of Licensed Cement Manufacturers. The Association of Licensed Cement Manufacturers was organized in 1908 and dissolved and abandoned by unanimous vote on or about the 6th day of January, 1911, and not in 1912 after the decision of the Court of Appeals, as alleged in the bill. Prior to the formation of said Association, certain of the defendants, after exhaustive investigation in litigation of United States letters-patent No. 645,031, of March 6, 1900, to Hurry and Seamon, purporting to cover a pioneer invention consisting, in substance, of an apparatus comprising means for calcining cement by the use of pulverized coal in rotary kilns instead of the more expensive oil theretofore used, considering the controlling effect which said patent would or might exert on their businesses and the cement industry, had formed a corporation which had secured a license with power to sub-license under said patent upon payment of a royalty of Two hundred thousand dollars (\$200,000.) a year, which royalty was in fact paid, said corporation being the corporation referred to in the bill of complaint. The licenses under said patent for approximately two years prior to 1911, were limited to the use of the invention in making cement sold at not less than a minimum price, which price was in fact little more than the actual cost, said limitation on

the license applying to cement sold in certain territory, but not all territory served by the licensees. Said licenses and said Association were based directly upon a similar contract and arrangement endorsed by the United States Court of Appeals and entered into in reliance on said decision and the advice of counsel learned in the law and in accordance with the view of the law then generally prevailing and commonly acted upon in many industries. Thereafter, the view of the law set forth in said decision of the Court of Appenls was questioned, and it was suggested that price limitations in patent licenses were regarded by some as improper, whereupon in January, 1911, and more than eight years prior to the filing of the bill of complaint herein, the limitations on the licenses with respect to price and other conditions were cancelled and said Association and all activities relating thereto abandoned. The practice of selling Portlaid cement at delivered

The practice of selling Portlaid cement at delivered prices is not a result of any patent liesnes, association or any agreement whatsoever, but an inevitable included selling an article the east of which to the user consists largely of freight, to purchasers who cannot thomselves readily ascertain freight rates. The practice of informing the purchaser what he must pay for the cement he buys, or making a delivered price, has always existed and been increasingly practiced by manufacturers; in accordance with normal conomic developments as invensing competition has forced greater efforts to effect sales, the increasing elimination of middlemen's profits, and like developments.

This defendant denies that after the abandonment of said Association in 1911, it continued to consider it regular to make or adhere to any price whatsoever or to adhere to the prices made by other defendants.

According to the experience of this defendant, Portland cement emmot be sold at any given point of delivery at different prices to any considerable extent or for any considerable period of time, by reason of controlling economic factors embracing particularly the comparative production capacity and consumption, the commercial identity of the product of all manufacturers and the intense sales competition.

This defendant denies that, to facilitate uniform adherence to any price whatsoever, the Abjus Portland Cement Company distributed to this defendant, or so far as this defendant is informed to anyone des, freight books purporting to show freight rates from the Abjus Mills to the several points of delivery; and this defendant is without knowledge as to whother said Abjus Portland Cement Company published its so-called "mill prices." And this defendant avers that publication of freight rates on cement would not materially affect the price of executat any delivery so with the contract of the contract o

This defendant admits that competition has prevailed throughout its experience, and the competition prevailed in the year 1915. This defendant denies that cement soil uniformly at about 65¢ per barrel, exclusive of freight, during the year 1915, and avers that cement has soil at various prices realized at the mill of this defendant during 1915, and such prices during several months just before the formation of the Cement Manufacturers Protective Association, were much more than 65¢ per barrels.

Answering the allegations of sub-division IV., paragraph (2), of the bill of complaint, headed "Amount of

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Production," this defendant respectfully points out that bill contains no allegation as to the amount of production prior to 1915, which was in fact never materially greater than in 1915, and says that the so-called Production capacity" of exement mills referred to in the bill of complaint is of little or no significance, because the nominal production capacity comprises much that has been readered practically unavailable by advances inte art and knowledge, and changes in conditions and the industry.

Answering the allegations contained in sub-division IV., paragraph (3), concerning contracts for future delivery, this defendant denies that it entered into contracts of the character therein described designating the same construction work which was designated in other such contracts made by other manufacturers or specifying amounts of cement in excess of the amounts necessary for the designated construction work, except in cases wherein this defendant was ignorant of the fact that the cement for the work had been contracted for by others, or in cases wherein this defendant was not advised as to the amount of cement necessary for the designated construction work and led to believe that the cement represented as required for and to be used in said work was in fact required therefor and to be used therein. And this defendant avers, on information and belief, that instruments in the form of contracts for future delivery of cement represented as necessary for and to be used in designated construction work, which cement is not required or to be used for the designated work, are essentially fraudulent and unlawful, and calculated directly and indirectly seriously to injure the manufacturer, the trade, and the public. This defendant is without knowledge as to the aggregate amount of cement covered by genuine contracts for future delivery in the year 1915.

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Answering the allegations contained in sub-division V. of said bill of complaint, this defendant denies that in the year 1915, or at any time thereafter, this defendant engaged in any combination or complared in restraint on to decrease the amount of cement for future delivery, or to sell coment at delivered prices which were uniform, or to increase such delivered prices, or otherwise, or at all; and with respect to other references in said allegations, this defendant says:—

(1) The aggregate production of ecenet in 1915, 1916 and 1917 by the derendants wan, as this defendant is informed and believes, approximately the aggregate quantity for which there existed a market within the countries and radius of their mills and was approximately the same annual quantity as in the several years preceding 1915; and the smaller production in 1918 resulted from economic and governmental causes, including the general cartainment of building operations and construction work, governmental limitation of coal supply to examt manufacturers, requests of the government through the War Industries Beard to the defendants to curtail production, and like causes, and not from any combination or conspiracy as falsely and unjustly alleged in the bill of complaint.

(2) Similarly, the aggregate amount of cement at any time under contract for future delivery depends upon

(3) This defendant denies that at the time of the formation of the Cement Manufacturers Protective Association the price received by this defendant, exclusive of freight, was as low as 65 cents or that the average price received by the defendant at the time the bill was filed was as high as \$1.85, as alleged in the bill. Prices for cement received by this defendant have increased in the last few years as a result of increased cost of labor and material, and other economic and governmental causes, and the natural operation of economic laws, and have not been increased or fixed or controlled by any combination or conspiracy or association whatsoever.

VI

Answering the allegations of sub-division VI., paragraph (1), of the bill of complaint, concerning the Cement Manufacturers Protective Association, this defendant denies that said Association was created in the latter part of the year 1915, and avers that the organization meeting of said Association was held on the 6th day of January, 1916, and said Association commenced operations shortly thereafter. The objects, purposes and results of said Association are accurately set forth in the outline of the plan, proposed constitution and by-laws considered and adopted at the time of the organization of the Association, a copy of which is attached hereto, designated "Plan, Constitution and By-laws of Cement Manufacturers Protective Association," and made a part hereof; and it has had no other object, purpose or result. Said plan, constitution and by-laws were, prior to the adoption thereof, submitted to many counsel learned in the law and by all of them approved and prior to any activity of said Association, taken to the Federal Trade Commission in Washington in an effort to ascertain whether there could be any objection to any part thereof without developing any suggestion of any objection. From the beginning of said Association, every word said at any meeting thereof has been taken down verbatim and promptly sent to and filed with the Federal Trade Commission, and specimens of all reports distributed and full information concerning every act performed by or under the direction of said Association similarly promptly sent to and filed with said Federal Trade Commission, and all acts and doings of said Association and all things said at any meeting thereof have been in accordance with said plan, constitution and by-laws and will be duly and fully exhibited to this Court; and said Association has been repeatedly investigated by representatives of the Federal Government, to whom at all times the fullest information concerning every activity of said Association has been freely given; and until the filing of the bill of complaint herein, there has been, so far as this defendant is informed, no suggestion that said Association, or any act or thing done by it, was in any degree improper or contrary to any public policy or statute, or not boneficial to the cement industry, the trade and the public. And this defendant avers, on information and belief, that said Association and all its acts and doings are wholly honorable, lawful and helpful, and of benefit to the industry, the trade and the public.

This defendant denies the allegations of anid sub-division VI, of said hill concerning said Association with vision VI, of said hill concerning said Association was write the purpose or effect of bringing about relution of the amount of cement produced, or reduction in the amount of cement subject to future oblivery at fourprisons, or uniformity of prices for any given point of delivery, or increase of such urines.

Answering the allegations of sub-division VI., paragraph (2), this defendant denies that it or, so far as it knows, any other manufacturer of cement has artificially curtailed or restricted production in any way; and avers that it and, so far as it knows, every other manufacturer, has at all times produced, so far as practicable, all the cement that its ability to market the product justified. and diligently sought as far as practicable to increase its sales and production; and this defendant specifically denies that it has declared or heard the larger and more prominent manufacturers declare that large production resulted in lower prices or was detrimental, or that anyone would curtail production, or hoped, or expected that others would. This defendant denies that any tables of which it has any knowledge have shown any mills shut down or operated at less than full capacity to curtail production; denies that it or any other manufacturer of which it has knowledge, upon consideration of the low production of any manufacturer, shut down its mills or operated them at less than full capacity; and denies that an effective or any agreement was brought about whereby any production was restricted to any extent whatsoever.

Answering the allegations of sub-division VI., paragraph (3), concerning the alleged reduction of the amount of cement covered by contracts for future delivery, this defendant denies that it or, so far as it knows, any other manufacturer, has declared that the delivery of coment under contracts for future delivery at prices specified in the contracts or as of the dates of the contracts was a hindrance to the establishment of higher prices or detrimental. This defendant avers that papers in the form of contracts based on the representation or specifying that the coment mentioned therein is required for and to be used in certain designated construction work or calls for delivery thereunder, when in truth and in fact the cement so contracted or called for is not required for or to be used in such work, are essentially fraudulent, illegal and injurious to the manufacturer, the trade and the public, and might properly be, and generally have been, characterized as "fake", or by other equivalent terms expressing the dishonest and unreliable character thereof, but this defendant denies each and all the allegations of the bill to the effect that any so-called cancellation of fraudulent contracts was matter of agreement, and avers that it and, so far as it knows, every other manufacturer, has been at all times free to follow, and has followed, its own wishes and judgment with respect to any such so-called contract; and this defendant denies that it or, so far as it knows any other manufacturer, has caucelled or refused to perform any lawful contract or any paper purporting to be a contract, by which it was bound, and avers, on information and belief, that every so-called cancellation made by this defendant, or so far as it knows by other munificaturers, has been in affect energy bromal notice of knowledge that the particular construction work or "specific poly" would not require the enemat and so any obligation to deliver enement for that work had ceased, or related to a false and fraudulent paper, which was calculated to cheat and defraud this defendant or other manufacturer, and to injure the industry and the public.

This defendant denies that it, or so far as it knows any other manufacturer, has ever sought generally to curtail or restrict the number of genuine contracts for the future delivery of cement required for and to be used in designated construction work, at prices specified in the contract, or as of the dates of the contracts, or delivery thereunder; and denies that the amount of cement covered by such contracts has been influenced by any agreement or the Cement Manufacturers Protective Association, or any act or doing thereof; and avers that the amount of cement covered by such contracts at any particular time varies in accordance with economic conditions and the extent of such construction work in progress or undertaken or definitely projected at any particular time and is not in any wise affected or controlled by any agreement or combination or association between this defendant and other manufacturers.

As to the repetition in said sub-division VI, of the allegations of figures and amounts alleged in sub-division V of the bill, this defendant repeats its answers thereto aforesaid and denies that the variations resulted from any action of this defendant in agreement or combination with other manufacturers or that the delivery of ement at former prices was prevented or higher prices secured in the manner alleged in the bill of complaint or by any combination or agreement whatsoever.

Answering the allegations of sub-division VI., paragraph (4), of said bill of complaint, concerning alleged fixing of selling prices, this defendant denies that it, or so far as it knows any other manufacturers, made mutual, or any, oral or other agreement to co-operate or intending to co-operate in selling Portland cement at uniform or increased prices, in any manner whatsoever; and denies specifically that the freight books, which were in fact only convenient, labor-saving books setting forth the lawful freight rates commonly used in shipping cement, tended to fix any particular price or a uniform price; denies that it, or so far as it knows any other manufacturer, charged as such, or agreed to charge, the highest socalled "mill price" charged by any of the three largest defendants; denies that it, by addition of freight or otherwise, accepted the highest so-called "mill price" of any of said three defendants as controlling or fixing its price: denies that it, or so far as it knows other manufacturers, added to any charge for cement, under instructions of a committee or otherwise, any additional amount as freight, except the actual freight officially established insofar as it was possible at any time to ascertain the same.

This defendant denies that it remonstrated with other defendants on account of any deviation from any price fixed as described in the bill of complaint or heard such remonstrance or was told anything connected with any price so fixed; and denies that an offective or any agreement was brought about or has existed to the knowledge of this defendant, whereby any price was fixed or any-one adhered thereto; and denies that the price at which

this defendant has sold cement at any time has resulted from any agreement, combination or conspiracy whatsoever.

### VII.

Answering the allegations of sub-division VII. of said bill of complaint, this defendant denies that any unlawful combination or conspiracy among producers of cement has existed and denies that the production of Portland cement has been greatly or at all restricted by this defendant, or so far as it knows any manufacturer or manufacturers thereof, and avers, on the contrary, that the variations in production have been due solely to variations in consumption, the amount of construction work, governmental measures connected with the war, and other like circumstances and causes of an economic nature; and this defendant denies that the amount of cement subject to future delivery at any particular time has been controlled by this defendant or other manufacturers, and avers that reduction or increase therein has been due to economic causes beyond the control of this defendant or other manufacturers of cement; and this defendant denies that the increases or decreases in prevailing market prices of cement have been due to any collective action among manufacturers of cement, and avers that such variations, whether of increase or decrease, have been and are controlled only by economic causes, including the cost of labor, material and other like factors, taken in connection with the comparative production (actual and potential) and demand, the commercial identity of the product of all manufacturers, and the intense competition, and this defendant denies that its prices have been such as to yield large profits or unreasonable or unjust, and avers that they are at present largely a result and not a cause of the "provailing enormous cost of necessities" referred to in the bill.

Further answering said bill, this defendant avers that the allegations thereof are, in part, dincetly contrary to the facts and, in part, so innearants, incomplete and sets than the whole truth concerning the subjects of a sless legations, that the allegations indicate, are based on, and are calculated to create, a false impression concerning the facts, wherefore this defendant denies any and all allegations of said bill not herein expressly answered.

This defendant therefore denies that the plaintiff is entitled to the relief prayed or any relief, and prays that this defendant may be hence dismissed with its reasonable costs and charges herein most wrongfully sustained. 1

STATE OF ARE JUNEAU SECULO SE

Stephen B. Manufact being duly sworn deposes and says that he is the Prosettent of the Chira To Meller Company one of the corporation defendants named herein; that he has read said answer

Conv. (Batter Critical Linguistics) and has read said answer and knows the contents thereof and that the same is true of his own knowledge, except as to the matters therein stated to be based on information and belief and as to those matters he believes it to be true.

Subscribed and sworn to before me? this day of Lift. 1919.

## Edison General File Series 1919. Miner's Safety Lamp [not selected] (E-19-46)

This folder contains correspondence and other documents concerning Edison's battery-powered safety lamp. The one item for 1919 is a letter from Mitsui & Co. to the Edison Storage Battery Co. stating that S. Murayama was not the person who spoke to Edison about the lamps.

## Edison General File Series 1919. Mining -- General (E-19-47)

This folder contains correspondence relating to mines and minerals to be bought, sold, surveyed, worked, or tested, as well as other documents about mining-related and geological topics. Most of the items for 1919 pertain to visits by former Edison Portland Cement Co. president Walter S. Mallory to mining areas in California, New Mexico, and South Dakota in search of lithium-bearing ores such as lepidolite and spodumene. Included are letters discussing Edison's intention to open a lithium hydroxide plant to supply his alkaline storage battery needs and to meet growing industrial demand. Also included are items regarding the purchase of an option on property owned by David N. and Caroline Ingalls Swanzey (sister of author Laura Ingalls Wilder) and the results of trial mining operations at that site. In addition, there is correspondence with Waldemar T. Schaller and George Otis Smith of the U.S. Geological Survey, along with several letters (unrelated to mining) concerning experimenter Newman H. Holland's work on acoustic range finding. At the end of the folder are an undated map showing the location of the Swanzey property and two undated items, possibly from 1919, pertaining to nickel and bearing notations by Edison.

Approximately 40 percent of the documents have been selected. The unselected material includes requests for maps and publications concerning South Dakota and California; additional correspondence between Mallory and Edison's assistant William H. Meadowcroft; additional reports and notes by Mallory and Charles B. Hanford on California mining areas; notes on ore processing by Ludwig F. Ott, a copy of Mallory's assignment of the Swanzey property option to Edison; copies of U.S. Geological Survey maps; and duplicates.

January 6, 1919.

Dr. Waldemar T. Schaller, U. S. Geological Survey, Washington, D.C.

Dear Sir:-

Er. Edison desires to have our Er.W.S.Mallory call upon you and thik with you shout some of the matters which Er. Hanford discussed with you a few days ago.

If this is agreenable, would you be able to see
Hr. Mallory on Monday or Tupsday mat week?

Yours very truly.

Assistant to Er. Mison.

January 20,1919

Director, U. S. Geological Survey,

Washington, D. C.

Dear Sir:-

The Country is in noed of a better supply of Lithium. At present we alone, at this plant, are using about 16,000 pounds mouthly of Lithium hydroxide and we shall need a larger quantity in the future. The supply in the market is limited and is closely controlled.

To insure a more reliable source of supply I have decided to erest a factory of my own if I am succeed in locating a good available deposit of the raw material, as I expect to manufacture enough for our own requirements and also a surplus for the general market.

I will appreciate any holp you will give me in enlarging this growing industry.

Yours very truly.

TELEGRAM Regular Day Letter Government Telegram, telephoned to R. W. Kellow at 12 M Jan 21 1919 by Western Union Telegraph Company. Washington, D. C., January 21, 1919. W. S. Mallory, c/o Edison Laboratory, West Orange, N. J.

Can see you Wednesday morning.

S. W. Stratton, Director.

January 23,1919.

Dr. W. T. Schaller, U. S. Geological Survey, Department of Interior, Washington, D. C.

Dear Dr. Schaller:

on Wednesday I had a very interesting interview with Director Saith of your Department, who has promised to have repeated to the provided to the process of the provided to trip to South Dakota just as soon as the weather conditions will permit of prospecting. I left with him see and I am vory hope Thi that it can be arranged so that the provided the provided that it can be arranged as this field together.

I sm leaving for California on January 33th and will probably remain there until conditions will permit me returning by South Dakota, so that in case you wish to reach me at any time, please write me in care of Mr. W. H. Meadoworth, Edison Laboratory, Orange, N.J.

Yours very truly.

January 28, 1919

Hr. B. P. Boyle. Edison Portland Coment Co., Stewartsville, N.J.

My dear Boyle:

heanise he has not received the sumples from Oxford. If you have dunisates, you better nut a Menagement on the tesh and deliver them to Mr. Meadewordt. It is now nearly three weeks since Mr. Meadewordt. It is now nearly three heaning the delay.

Yours very truly,

Huallon

P.S. If you have not duplicate samples, you better not some immediately.





Albuquerque, N. M. Feb. 6th. 1919.

Dear Mr. Meadowcroft:

This is one of the first of my "one finger" letters and it is not being written as fast as the "Hush Shipe" are supposed to go, I am interested to know what you may have heard from Mr. P. G. Nutting of the Westinghouse Research Laboratory, East Fittsburg, Fa, about the spectroscope which I hope we say to get so we can return the one I have to the Bureau of Standards at Mechinaton.

If you do not get any satisfaction from him or from Mr. Garl W. Keuffel of Keuffel & Esser, Hoboken, N. J. Ithink it would be wise to take the matter up with Adam Hilger, 75 A Gamden Road, London, N. W. England.

Mr. Edison told Mr. Warner to go shead and make two spectroscopes for him, so you better see what he may have done before you write to the above people.

As I write this I can look out of the window and see the mountains covered with snow, When we came through Kansas it was warm enough so we walked without an overcost while the train was at the station, travel is very heavy towards California, I am enjoying the trip very much and wish you were with me, I am looking forward with much interest to my next stop which will be the Grand Canyon.

Please address any mail you may have for me to 8 West 40th. New York, and it will be forwarded, should I change the address left I will telegraph our N. Y. office and in this way my mail should not go satray, when I have made mistakes, it has been when I have tried the use two fingers. My very best to you all.

Yours very truly.

Mallory.

February 11, 1919.

Mr. W. S. Mellory, 8 West 40th Street, New York, N.Y.

Dear Mr. Mallory:

your latters of Pebruary 5th, written at Albuquerque.
You are cartainly doing well for a one financed typewriter. From the looks of the letters no one outlet tell but what they have been written by an axwert

We have heard from Mr. Mutting of the Westinghouse Research Laboratory, but he was unable to be of any help.

However, you will be glad to learn that Mr. Warner has been able to pick us some Mrool tryl now and as only one shy now to make enough for two spectrophotometers. He seems to have no doubt that he will be able to pick up the one that he lacks, and he is going shead to make two of the instruments up.

I echo your wish that I could be with you, for I am sure that your trip will be an enjoyable one. Housekeepers do not usually get these nice trips, as they have to stay home and dust up and keep the house straight

Er. Reison left for Plorida yesterday on the 1:35 train. On the way to the train he stopped in a half-hour to most the Plomosrs, who were assambled at the Robert frost Hotel in Houser for Lundson. Mrs. Edison. Cherles and his wife and Theoret for Lundson. Mrs. Edison. Of the Plorida and the wife and Theoret for the Children of the C

You will be pleased to learn that the Ploneers Lincheon yesterday was a great success. There were about 50 present and we had a real fine time. They were all tickled to meet Ur. Edison, and he seemed to be just as pleased himself.

With kindost regards from us all. I remain, Yours sincorely.

If the Geological Survey has served you it has simply done its duty and will take your appreciation for granted.

## DEPARTMENT OF THE INTERIOR UNITED STATES GEOLOGICAL SURVEY

WASHINGTON

OFFICE OF THE DIRECTOR

Pebruary 19, 1910.

What the desired of the periods of your sounds.

To or Document 20, 1916, Between the sounds.

Sortption of your work.

Mr. Thomas A. Edison. Orange, New Jersey.

My dear Mr. Edison:

In reply to your letter of December

I thank you for the description of your proposed it is series for determining positions of comments and the series of the series acoustic device for determining positions of your proposed and for your suggestion that it might be applicable in the surveying operations of the U.S.Godlogford Survey in leading to veying operations of the U.S.Goological Survey in localities where ordinary mapping instruments are difficult to use.

There are several methods now in use among topographic engineers which permit of the quick and accurate location of any visible point, both horizontally and vertically. But in the heavily timbered Horthwest and elsewhere, are large areas where, although local mapping is possible by means of taped traverse, its accurate control by any practicable method is unsatisfactory and costly. I would therefore be interested in hearing further from you as to the minimum amount of sound necessary, the nature of the sound needed, and the range in distances over which these minimum sounds could be measured; also whether the proportional accuracy of the device should be as great at very short distances as at longer ones, and to what extent air refraction factors at varying elevations would affect the result.

Yours very truly

M. Edward it would leave affective in the state of the sund affect in th

Mr. Wm. Meadoworoft:

Mr. Geo. Otto Smith's letter or the 19th attached, requires answers to the three questions on our accountle device for determining points in surveying that cannot conveniently be brought into direct line vision. The questions and answers follow:

No. 1.

As there is no accepted standard values for sound, a definite answer cannot be made to this question. With amplifier, readable records can be obtained when the sound reaching the receiving station is just barely smallble. Without amplifier, satisfactory records have been obtained when the source of sound was a 10 goage shot gun loaded with the commercial black powdered shell, fired at over a mile from the receiving station, but atmospheric conditions will affect considerably the distance any given sound will be transmitted. No. 2.

ACCURACY AT VARYING DISTANCES.

Accuracy at short distances is easier to obtain, but it should be practical to obtain an accuracy with an error not exceeding  $2\beta$  plus  $0^{\infty}$  measured. The base line used is not less than 1/6 of the distance being measured. With a series of reading in our tests we have obtained even better results than this with a base line of  $\frac{2\beta - 1}{1600}$ , when measuring to a noint own 2 1/2 miles distance.

No. 3. AFFECT OF HE-FRACTION AND REFLECTION.

The affect of different densities of the air and the movement of the air are principally distincting the range to which any given source of sound will be transmitted. Elevating the receiving station greatly increased the range at which a given sound on be heard, as the tendency of the wind is to tilt the sound waves upward and the usual condition of varying air densities along the path of the wave, also have the same effect.

The affect of the wind on the speed of sound can be very closely figured and allowed for and under usual conditions the change in speed of the sound in passing through layers of air of different density in its journey can be neglected, therefore, the re-fraction of the sound limits the distance from which a given sound can be recorded, rather than greatly affecting the accuracy of the observation.

While the sound may be reflected by striking a layer of air of their different densities as well as solid object, producing an eache, which may also be recorded the position of the original sound on the record in relation to its eche can easily be distinguished so that confusion can not arise from this cause.

Wol Will and





Feb. 22nd. 1919.

Daer Mr. Meadowcroft:

I have heard from Mr. Peyer, whom I wanted to show me the deposits of Lepidolite in New Mexico, and he says the delay in writing me was because he has been away, and even if I had gone to his place and he had been home, that we would not have been able to have seen the deposit, as it is in the hills and is all covered with snow, and that it will probably May before they can be seen.

I am pleased that my decision not to attempt the trip when at Albuquerque, has been proven to have been a wise one.

Am having him send me samples which I can test before I see the deposits.

Am still working to try and get a test which will give me a rough idea of the lithia contents of the rock, but as yet have not found anything by which I can swear, but feel that I am making progress, and expect to get something



cel better, than the results I have been able to get with the Washington double spectroscope; there are so many variables, that affect the results, that thus far I cannot check the work when it is duplicated, so I am now working up a comparison by burning out the lithia, and am getting some results which are more encouraging, although the problem is not solved as yet.

If the climate continues to be the same as it has been since my arrival, and that is a maximum of 72 and aminimum of 60, it is possible that I may become the same sort of a "booster" as nearly every one I meet here, who talks on that subject.

Thanks for your letter which gave me the information for which I asked you just the day before, rather quick work.

Yours very truly.

W. S. Mallory

March 3.1919.

Deer Mr. Mallory

I have received your letter of February 22d. Evidently your good fairy was working for you in steering you from making the flow Mexico trip. I suppose you will probably take that in after the snow has melted.

I showed your letter to Mr. Warner and presume he will write you separately in regard to the spectroscopic problems.

There is nothing particularly now. Mr. Edison in his memoranda does not sy anything as to whether or not he is having a good time, but as you know, he nover does. Charles Edison has been away for about two weeks with another attack of the "Flu", but got book last Saturday sorning. He is probably going to down to Florida this week-end for a short stay.

Mr. Clark is making great progess with the production of disc records. He is sending 35,000 a day to stock. This is going some.

I am glad that you are enjoying such a besutiful climate and suppose it will be pretty hard to drag you away from it.

With kindest regards, I remain,

Yours sincerely,

## Mr. Meadowcroft:

Replying to Mr. George Otis Smith's letter of the geological survey, would answer his questions as follows:

- Anything that produces a loud sound could be used as a source of sound, but preference might be given to the sound produced by the firing of a gun or the explosion of dynamite, which will give a single, sharp report.
- The distance over which a sound can be recorded depends of course, on the intensity of the sound source, but is also dependent on the wind and other atmosphoric conditions. We were successful in recording this like the sounce of black powder, located nearly four miles from the Receiving Station, but this was under conditions. With a saluting canmon of the character used, we would consider that one mile would be a fair estimate as a distance that one mile would be a fair estimate as a distance where some the same of the comments of the conditions with the same of the conditions of t

A shot gun or the explosion of a stick of dynamite can be used as a source of sound if short distances are to be measured, say from 1000 to 2000 feet, and under favorable atmospheric conditions this range can also be greatly extended.

- 5.

  The accuracy of the results should be within 25 plus or minus of the distance being measured, if the base line used is not less than 1/6 of the distance of the observing station to the source of sound. This is given as a general measure of the accuracy, although even better results them this lave been obtained in tests, with conditional content of the content
- The wind velocity and the refraction of the sound by different airdensities chiefly affect the results in limiting the distance over which a given sound can be recorded.

The effect of the wind committed whon it is against the source of cound, has a tendency to sheet the sound wave upward, some it leventing the receiving station a familiar country to the effect of the wind on the speed of sound can be played for so that the accuracy

government will the

-2-

of the results can be maintained under varying wind conditions. The sound may be refracted in passing through air or different density in its journey, so that the auditality of the sound will vary in range according to the atmospheric conditions, but if the according to the atmospheric conditions, but if the conditions the variation in velocity due to the difference in density of air in the sound path can be neglected without greatly affecting the result. As the usual conditions that obtain are ascending columns of heated air, the arthractory offerts usually have a tendency that the reserving the reserving the reserving the reserving that the according to the reserving that the also have a tendency that the contribution of the heated air, the reserving that the also have been successful to the reserving the given sound can be recorded.

N. H. HOLLAND. .

Mr. Geo. Otis Smith, Director, United States Goological Survey, Department of the Interior, Washington, D.C.

Dear Mr. Smith:

Your letter of February 19th was received and I sent it down to Mr. Edison, who is spending a few weeks in Florida. He has asked me to write the following answers to your questions:

- Anything that produces a lound sound could be used as a source of sound, but preference might be given to the sound produce; by the firing of a gun or the explosion of dynamite, which will give a single sharp report.
- 2. The distance over which a sound can be recorded depends; of course, on the intensity of the sound source, but is also dependent on the wind and other atmospheric consistion. No were successful in recording sound proceedings and the sound proceeding the sound of the sound of
- A shot gun or the explosion of a stick of dynamite. oan be used as a source of sound if short distances are to be measured, say from 1,000 to 2,000 foet, and under favorable atmospheric conditions this range can also be groatly extended.
- 3. The accuracy of the results should be within 2% plus or minus of the distance being measure; if the base line used is not less them 1/6 of the distance of the base line station to the secree of sound. This is given beserver, measure of the accuracy, although better results than this have been obtained in tests, with considerably shorter base line. The accuracy at very short distances should be equal and easier to obtain than reading at greater distances.

4. The wind velocity and the refraction of the sound by different air densities chiefly affect the results in limiting the distance over which a given sound can be recorded.

The effect of the wind when it is a merinet the source of sound, he so tendency to bend the sound wave upward. Elevating the roadving station will increase the contector which a groadving station will be rocared. The effect of the wind on the speed of sound can be allowed for so that the sound time will be roadving a summarization of the wind on the speed of sound can be maintained under varying wind condition results can be maintained under varying wind condition from the sound will vary in range seconding to the stancephoric conditions, but if the results temperature outerstained as the sound will vary in reason sounding to the stancephoric conditions, but if the results temperature outerstained as made for the speed of sound, the arrangement of the sound will be sound the sound will be sound when the obtain are asconding columns of heated eir, the refrectory efforts usually have a tendency to till the sound wave impart therefore, clavation of the receiving station also is helpful.

Yours very truly.

Assistant to Mr. Edison.



Dear Mr. Meadowcroft:

I am very sorry to hear of Mr. Dyers death, although I am not surprised, as the last time I saw him, which was about the holiday time, he looked very bedly, and one of my friends told me about the trouble he was having, I shall miss him when I am at Easton, as we spent two days together each week.

I have finished my trip thru the mines here, and am preparing the report, which I will forward just as soon as I am able to get some freight rates, have had an interesting trip in the mining district, which has confirmed what I learned in Washington, and that is there is only one commercial mine here, from our point of view, but it contains more ore than I expected to find.

The mines which carry gems have very little lithia, and the lithia mine has no gems, so as I found this out before starting on the



trip I had to change my plan of campaign as talked with you, so that Mr. Grane President America Lithia Company, knows that I am connectwith Mr. Edison, when I return will tell you the reasons why I decided it was better policy to make myself known to him.

Mr. Grame says he knows you, and if you should hear from him, please write him one of your diplomatic letters, and then send his letter to me.

It has been quite cool for the past week, with considerable rain. Best remembrances to you all.

Yours very truly.

W. S. Mallory.

San Diego, Cal. March, 24th. 1919.

Dear Mr. Edison:

The attached report confirms your judgmont, and the information which I obtained from Dr. Schaller, Washington, D. C. that there is only one known shipping deposit of lopidalite in California, and that is the Skewart sine.

Before going to the Pala district, I spent some little time in San Diego collecting all the information I could get about the various properties, which I expected to visit, and also about Mr. Crane President of the Stewart Company, as I found he was the men from Whom I could get more information than anyone class about his own property, when I arrived here I did not expect to disclose my connection with you, and when I arrived at Pala. I found that Mr. Crone was away, which gave no the chance to visit several other properties, before meeting him, and the opportunity to learn more about him from Trottler and others, and the information I obtained, confirmed what I had learned in San Diego, that Grane is a very peculiar and suspicious man, who was a lawyer in Brooklynbut who now lives at the mine, trying to make it pay, and who is not in good health, and who will not give any information about his own property, or any other, tostrongers, and that the mines was shut down for lack of shipping orders and he was quite worried as to the prospects of a future market, so I decided I would get more and better information by telling him that I represented you, which I did, and as a result I have been able to get considerable information which otherwise I would not have obtained,

I spont two days with Mr. Crano, at the mine and his home, and told him the you had a contract, which would give you all the lithia you needed for the bettery, for several years, but that you ware interested in a new use for lithia(you will rescaper in your letter to the Chief of the Geological Survey, Washi-ngton, D. C. you said that you "needed lithia

"Tor the battery and other uses"), and ir you can obtain a supply cheap enough, you would be justified in condidering the new use commortally.

During deveral times tried to talk about the shipping price, but I teld him that before I could discuss to talk him. I would first have to talk with you,my idea being that when we know hore about the deposits in New Mexico, and South hakete, if it seems destrible to try and make a deal with three, to have him come to New York, which he does every summer, and where he will be in personal touch with the other stockholders, and them sake him en offer of what you are milling to pay, so I did not went him to make any price now, he is very hungry for any business, which will persit touchy operations of the property, even on a small output, as his trouble in the past has been, that they would start up and operate for a short period, and then must down, so he is cantous to mine continiously, and is very uncertain as to the shipping orders from the glass bride, show the occur conditions will presit payolite to

I am mailing a deplicate of this report to Mandawaroft, with the request that he fill held it until you return to Grange, all the sameles have been expressed to Grange.

I am also mending some samples of the new appraisate, which is being used in all the example sales, which are being built by the Government, which permits a concepts to be made, which will weigh about 160 pounds per cubic foot, all this appropriate will float in mater.

Fust us soon as I get to Los Angeles and San Francisco, I will get the information you wish, about salt and gypsum;

I will go to New Merico and South Dahota as soon as the snew is gone so I can whit the deposits.

Yours very truly.

W. S. Thallory



SanDessian Larch, 24th, 1919.

Dear Mr. Meadowerst:
The enclosed explains itself,
and I am pleased to send the samples forward, and
as I look back on the amount of work I have done
to try and determine the amount of lithia in each
sample, I feel that perhapse I have spent more
time than on it than I should, as I have not heard
from Mr Warren, with any suggestions as to the
best way to work the spectroscope, I have come to
the conclusion that he also is having a problem
to work it out, I hated to stop the work, but I
felt that it was more important to get the samples
to Orange before Mr. Edison arrived than to take
more time on the tests.

I had a very interesting trip to the mountains, and someday when we are at lunch, I will tell you as to some of my experiences among the Indians, which were very interesting to me, also how to fall off a horse and not get hurt, and also the safe way to kill rattlesnakes, which I did,

SAN DIESE CAL.

(let George do it).

For the past week or ten days, we have been having rain nearly every day, which has not made any difference to me as I have been in my room most of the time, at work on the samples, it also has been quite a little cooler, and from now on I hope to get in a little golf, have only played three or four times, since my arrival.

I expect to leave San Diego for Los Angeles, the latter part of this week, and will send you my address when I get located.

Let me know when Mr. Edison arrives

and if the samples arrive first.

Yours very trult.

W. S. Hallory.



## MOTEN TRUNKTY

LON ANGELEM4-3.19.

Dear Mr. Meadoweroft:

Will you please send me care
the Palace Hotel, San Francisco, Cal. the results
of Lr. Hanfords investigations of the lithia
deposits of the Black Hills in South Dakots, which
were being typewritten when I left Orange.

I want a chance to study them and check up my own investigations, so to know how best to lay out my trip when I start east.

Yours verytruly.

W. S. Mallory:





San Francisco, Cal. April, 28th. 1919.

Dear Mr. Meadowcroft:

On my mirrival here I found the typewritten matter and the maps, covering the lithia deposits of the Black Hills, which you sent me, and I have written to New Mexico to learn whether the snow in the mountains is gone so I can see the deposit there, and if I receive a favorable reply, I will arrange to start east, and visit this deposit first, and then go to the Black Hills, as from information I have been able to pick up here, I believe that I could not see the Black Hill deposits at this time, because of snow.

I plan to remain here for about two weeks, and if Mr. Edison has any other places he wishes me to visit while I am on my way east, you better wire me care the Palace Hotel, on receipt of this letter,

I am returning Dr. Stratton's letter so you may have it in your files, am pleased that you were able to get permission to keep the spectroscope until the latter part of June.

Yours very truly.

W. S. Mallory.

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May 6,1919.

Mr. W. S. Mallory; Polace Hotel, San Francisco, Cal.

Dear Mr. Mellory:

I have received your latter of April 29th, and as wondering whether you wished me to infor that you drawe whether you wished with this Cx beam as a shown on too fit he latterheet. If you did, you "Done Hoble" since you left

I showed your latter to Lir. Mison, who made no comment. He is on the job and still doing some rork on the still doing the still doing some rork on the still doing the still doing some rork on the still doing the still doing some rork on the still doing the still doing some attack of his old-time stomenh trouble. Otherwise, he looks firm and acts well and is appurently taking great delight in a lot of work that he hes laid out for himself.

Evidently he has no other places in mind that he wishes you to visit, or he would have made a memorandum on your letter. All he did, wes to put a big 2 on it, signifying that he had noted its contents.

With kindest regards from us all, I remain,

Yours for the Victory Loan,

The Brown Palace Hotel

The Brown Palace Hotel

The Brown Palace Hotel

The Brown Palace Hotel

Las John Parity College, 31. 1919.

The following is a report on the lepidelite deposit in

Hew Mexico, where I spent last/preek.

Location:
This deposit is lighted in the Taos copper mining district ( the books of record are located states, N. M.) and it is about 12 miles from Embudo, N.M. which it station on the Rio Grande and Denver Radiroad(narrow gauge).

History:

Some twenty years ago, a miner from the Black Hills, who wes familiar with the lithia ores there, found lepidolite float on the New Mexico deposit and located it with the government, and dug a ten foot trench, and then abandoned the claim; In 1913 Mr J. J. Peyer, Dixon, N. M. located the claim and did the necessary lofest of prospecting work, which must be done each year to hold the claim, and in 1916 he abandoned it. Then a men named Burton paid the government fee of \$1.50 but did not do the necessary prospecting work, so that in 1918 Peyer sgain located the claim and paid the fees and did the work, and will do so this year.

Peyer:

Peyer is a prospector and has a tungston mine, which is about three miles from the lepidolite deposit, but does not have the money to develope either, he has also located two other claims



The Brown Pulace Hotel

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. Derver, Colo.

of lepidolite, called 'claims 2 and 3 which adjoin claim #1. as shown on map herewith attached; Each claim is 600 feet wide and 1500 long, and on claims 2 and 3 considerable lepidolite float has been found, and one trench about 50 feet long has been dug; this cut shows the coarse grain gem lepidolite; I have arranged with Peyer to do the necessary prospecting work on those two claims, and if he can locate the ledges he will so report to me.

### Work Done:

Only enough work has been done to hold the shree claims, and it consists of one cut into the side of the hill, which is about 18 feet long(on claim #1) and one trench, about 50 feet long(on claim #3)

## Outcrops:

on claim #1 there are several places where the ledge outcrops, and from the surface indications, there seems to be a considerable quantity of ore, however no work has been done near these outcrops, so I could not tell whether the ledges are connected for the length of the deposit.

## Extent of Deposit On Claim #1.

The 18 foot cut shows the lepidolite dips about 60 degrees to the south(those of california were blanket formation) and assuming that the outcrops are a part of a continious body, the deposit seems to be about 75 feet wide by 600 feet long; this could be proved out by some trench work, the stripping seems to be light



# The Brown Palace Hotel

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for the length of the deposit, but possibly would be heavier across the body.

### Roads:

The wagon road from Embudo station, for about five miles is in fair condition, and a five ton truck could pass during ten months of the year, however there are two bridges which might have to be made stronger; then of the remaining seven miles, five would need considerable repairs, and two would have to be rebuilt; in the last mile the elevation increases 700 feet, building the roads would be largely a matter of labor, as there is plenty of dirt and stone eventable all along the road.

### Float:

There is a considerable amount of float all over the three claims, a good deal of which, seems to be higher than the exposed ledge formation, which may mean that the ledge extends higher than where it outcrops, we were unable to locate it any higher on account of the dirt covering.

## Power:

The Embudo river is located about three quarters of a mile from the deposit, and I was told that about 250 horsepower is available at low water, either by building a flume or a dam.

### Labor:

Labor would be largely Mexican, prewar wages were \$2.50 to \$3.00 per day, present wages are \$4.00 to \$4.50, all work in New Mexico



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(4) Deriver, Colo.

is dull, so labor probably could be had for less than present rates.

## Map Attached:

The pencil map shows the three claims and where the samples were taken, also gives a rough estimate of the contour lines, which are very steep at the place of the deposit(map is not drawn to scale) the distribution of the float lepidolitie is also shown.

## Samples:

Bag #1. contains pieces taken from the 18 foot cut, as shown on map, and shows the coarse grain gem lepidolite, which from my tests seem to carry a small amount of lithia.

Bag #2. contains a white rock, which is also taken from the 18 foot cut, and which lies directly over the lepidolite, this white visin is about 24 inches thick; my tests do not show any lepidolite. Bag #3. contains a pinkish lepidolite taken from the outcrop ledge as shown on map; my tests indicate about the same amount of lithia as the samples in bag #1. there seems to be a large amount of this ore.

Bag #4. contains a purple lepidolite taken from the ledge outcrop, as shown on map, and my tests show the largest amount of lithia, and seem to indicate as much lithia as that contained in the ores of California; there seems to be quite a large amount of this ore. Bag #5. contains samples of both pink and purple ore, taken from two outcrops, as shown on map, and my tests indicate that the purple ore carries the largest amount of lithia.



# The Brown Palace Hotel

(5) Denver Cold.
Bag #6. contains float picked up above the exposed ledges, all of which show lithin in my tests.

#### Property Not Known:

No representative of the Government or any of the State Bureaus have ever visited this property, and outside of a few local people, no one except myself has examined the property.

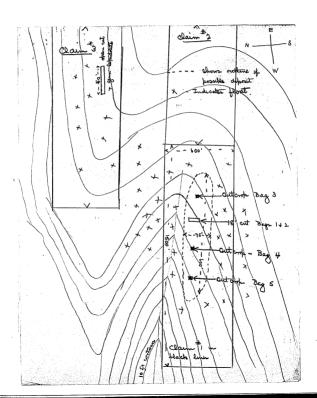
Mr Peyer is willing to do any development work we may desire, and will either sell or lease the claims, if we are interested, he does not know that I represent you.

When you get the samples, which will go forward at once, please have Mr Meadowcrott advise me if your tests show that the purple ore carries the most lithia, and if so I will have Peyer do the prospecting work, on the ledge which contains the purple ore, so to seeknow much there may be of this ore.

I find there is a possibility that this kind of ore can be separated, and I have had one interview on this subject and I am to see them again next week, and I will then write you what the prospect is, it seem too bad to ship so much material which cannot be used, if it can be separated here.

I wilk eave for the Black Hills, early next week. - I have already arranged for a guide who has been over the property with the Government men.

Yours Truly.





Carrie Wallong that no one Cannake opposition of Litties ore The Brown Juliver Holed the author splanger of the that ore a gangar woongoon ame -

Dear Mr. Edison:

The question of concentration of the lithis ores, I have discussed with several of the companies here who do that kind of work, and have seen samples of work they have done, and they seem to think that a successful separation can be made, and are willing to make the tests if we will send them the ore.

The most prominent company, and the one recommended by Allis-Chalmers 'Oo. ts Dorr & Oo. whose principal office is at 101 Fark Ave. New York, and who have an expermental testing plant just outside of New York where the tests could be made; when we were represented.

I have not made any definite arrangement for a test, not knowing what you may have done in this connection, but if you approve of some tests being made, I will arrange to have enough of the ore for the tests, shipped to them.

We will be under no obligations to them for the tests, except if they should prove to be successful, they would like to sell the machinery. Will take this up with you as soon as I return,

June 1st, we had quite a snow storm, enough fell to make the streets and roofs of the buildings all white, the temperature here was 52 and at Oclorado Springs it was 22, which is the coolest weather I have ever seen in June.

I leave for the Black Hills tomorrow, and will report soon what I find there,

Yours truly. Wallow

W.

June 6,1919.

Director of the United States Geological Survey, Department of the Interior, Washington, D.C.

Dear Sir:-

Mr. Edison would like to obtain topographical maps which would cover that portion of New Mexico lying between Taos and Santa Fo.

If you will kindly forward these for him, addressed W. H. Headoworoft, Oranse, H.J., together with an Index Map of New Mexico, remittance will be made at once for same.

Yours very truly.

Assistant to Mr. Edison.

Eillin

#### June 10,1919.

Before the United States went into the war we had a contract with Merok & Co., the sole agents in this Country for Lithia, which is an essential ingredient in the Alkeline Rickel Iron Storage Battery.

This contract expired. Before it expired, our regular orders were such that the lithis concern's capacity would have supplied and the lithis concern's capacity would have supplied by the contract of the con

We approached the Standard Essence Co. who were the miners ankers of the Lithis for Merck & Co., and they stated they could not furnish any greater quantity, but if we would pay for increasing their factory to the extent of an expenditure of \$110,000.00, they could double their output. This Company (the Standard Essence Co) is a German owned concern. There was no other thing to do, but to meet their demands.

I might mention that they doubled the price as well, knowing we had no other attractive than to scoopt as we could get no other source of supply. On account of giving preference to correct of the Government for batteries, our private orders accommisted, and since the Amistice we have been accommisted, and since the Amistice we have been an energy of the control of the computery investment of the \$110,000.00.

We believe we acted for the best interest of the Government and do not think it is quite equitable that we should pay the whole \$110,000.00. We think we are morally entitled to some assistance from the Government to carry this burden.

Payments on account of the \$110,000 extend over a period of 5 years from March 1,1919, such payments being made quarterly on the first days of March, June, September and December in each year, commencing March 1,1919.

Sent to m. huad

June 11,1919.

dear Mr. Mallory:

Your letter of June 3d to Mr. Edison in relation to the concentration of lithis ores was received and given to him.

He wishes me to write and say that no one can make separation of lithia ore as the specific gravity of the ore and gangue is the same.

The bags of sumples from New Mexico come in yesterday and he looked at the samples in all of the bags and said they looked fine. He has not made any tests yet, but seemed to have no doubt that the percentage would be good, especially the purple samels.

Just as I was coming to the close of this letter, Mr. Edison handed me a memorandum and asid "Write this to Mallory". I therefore quote his memorandum in full below:

"Say the New Mexico colored ore goes around

31 to 4%.

In Black Hills we want, 1st Ambligonite; 2d Spodumene, 3d Lepidolite

Spodumene is easiest to work.

regard to cost of mining over black Hills have in mins in regard to cost of mining Taxa 25% after eight be cheeper than 20% and the character of the mining of the mining of the mining the special content of the special content of

With kind regards from all of us. I remain.
Sincerely yours.

Orto, Maclory a un cord 90%

X
the Gust ora for war
1st bacruse it is in
2nd Easest worked in
factory,
3rd has cost for mining
9



The Frank CIN

Dear Mr. Meadowcroft: On\_June\_13th. I\_sent\_by\_express, charges -prepaid, addressed to you at your home in Boonton, a nail keg and a small box containing samples collected in the Black Hills district, the shipment was made from Hill City, South Dakota. Mr Kamman of Hill City, who owns the property which looks best, was quite interested to know just who I repersented, and for that reason \_\_\_\_ I thought it wiser to send the two packages to Boonton. As soon as I\_reach\_Chicago, I will prepare the report, which should reach you before the samples arrive. I have had a very interesting experience in this district, and the weather has been delightful, I am wondering how I will like the warmer climate, which I am liable to find when I reach Chicago. Sincerely Yours W. S. Mallory.



En Sutte at Madison St

Mediani au lur. Chirmus June 18, 1919

Herewith I beg to give you a report of my investigations of the lithia deposits of the Hack Hills, South Dakota.

Dennis Henault:

I arranged for this man to make the trip with me, as I learned that he is the best posted man in this section on the lithia mines and prospects, he has been in this section for over 30 years, and either has worked in the properties we visited, or is well posted about them. I made inquiry about him from . outside people and found that he has a good reputation, and to test his, I obtained certain information from other people and then would sak Henault for it, and in every case he gave me the same information as that I had obtained elsewhere.

The only mine now operating from which lithia minerals is being shipped, is the "Etta" which is owned by the Maywood Chemical Go. Maywood, New Jersey. Operating Mines.

Present and Prewar Wages:

Present wages are \$4.50 for eight hours for common labor, such as wheelbarrow men, and loaders, before the war these same men were paid \$3,50 for eight hours.

Working Methods at the Etta Mine. It is all hand work, except that the drilling is done by two small air drills, and but little powder is used due to the fact that the spodumene is much more soft than the other rock, fact that the spodumene is much more soft than the other rock, and breaks into small pieces, it to much powder is used; and breaks into small pieces, it to much powder is used; and the spodument is put and she she thereow, while the waste rock goes intend a point of a wheatherrow, while the waste rock goes intend a point of a wheather to the dump, - From what I saw and the intormation that I got from some of the work of the work of the same of the work of the very to not spodumene which is shipped, ten tons of waste go to the dump.

Present Asking Selling Prices.

In 1910 Henault shipped three carloads of ambligonite from the Ingerroll Mine and the net fo. B. care Keystone was

the Ingersoll Mine and the net f. o, B. cars Keystone was \$30. per ton. - The present asking prices are ambigonite guaranteed 7% or over \$40. - per ton; spodumene, 5% or over \$25. - per ton, all delivered on cars at Keystone, as far as I could learn, no shipments of lepidolite have ever been made from this district. Waste Piles.

Shipments have been made in the past from several of the proporties, which I visited, and in every case I found large dump piles, which confirms what some of the geologists estimate, and that is for every ton of either ambligonite or spodumene shipped, at least 20 to 25 tons of rock has been put on the dump.

Cassiterite(Black Oxide of Tin.)

Most of the properties, which carry lithia, were opened by the Harney Peak Tin Co. many years ago in the belief that they were tin mines, and this mineral is found in nearly all

the properties I saw.

My Estimate of the Various Mines by classes.

I have rated them as, class A. B. C. & D. The "Stat" is the only one in class A. The "Stat" is the only one in class A. The class B. I put the ingereol to the mood Tin Lode, the Dewey Class. The class B. I put the ingereol to the meant the Swansey, the class B. The Them. Publish to A. Bond mine, - Tin Death of Lim, - and Tin Queen mine.

To class D. - the Musc. - perless. Everly Lode. - and Michols.

In class D.-the Hugo, - Perless, - Everly Lode, - and Nichols, -

Etta Mine.

This property is located about one and one quarter miles from the Burlington R. R. station at Keystone, South Dakota. (there is only one train each week on this branch), this mine carries only spodumene, which is carted over a very good road, for \$1. - per ton to the station as above; this property has been worked since 1907 by the Maywood, N. J. people. The spodumene crystals contained in this mine were the largest and most numerous of all the mines I saw, one crystal which I saw in the tunnel was about five feet square and at least twenty feet long, - these crystals lie in every direction, and are all sizes from those the size of an egg up to the one of the tunnel, no other property began to show as many crystals or any size.
The dimensions of the property seem to be about 165 feet long
by 165 feet wide, and about 160 feet high, a shaft put down
from the tunnel, went into size, and when size is reached
all the mining men say that the lithia cres, stopk, there are
two theories as to the shape of the lithia deposition the
first being that each one is bee hive shape the state of the
size as 15 gets nearer to shape of the largest amount of ore
the State deposit; in the State and the largest amount of ore
work here yet hem done to tall which of these theories are crystals of any size,work has yet been done to tell which of these theories are correct. Drill holes are put in about six feet from the face, and four feet apart, and very little powder is used, for the reason

already stated.

I tried to get some idea as to the cost per ton of the ship-ing spodument delivered to the bins, but the foreaan would not give it to me, so made the following rough estimate, 

Cost per day. Days operated each week-----

Cost per week.----\$450.00

average shipments per week are about 80 tons, which makes the oest delivered into the bins about \$6.00 per ton, with \$1.00 plus 3% war tax, the oest to the Maywood popule into the Maywood, plus 3% war tax, the oest to the Maywood people is encewhere about \$17.40 delivered New Jersey. (the prewar freight was \$6.00 per ton to Maywood.)

The foremen told me that as they get deeper, the spodumene gets harder and better, and whenever they work any of the ore which has been decomposed, then the Maywood people kick about the shipment.

bout the snipment.

they have.

Samples sent.
One from a carload, which was being loaded at
Keystone for shipment.
one from the tunnel, which is about 300 feet long,
and as the tunnel is near the bottom of the depoiit, thit sample is probably the best spodumene

Ingersoll Mine.

Line.

Line is a class "y" mine, and for several reasons I think it is the best present now available, it is cloated about two miles N. W. of Keystone, and about three quarters of one mile from a witch on the Keystone railread, and the haul is all down grade, over a road which will cost very little to put in good condition;— The property was first opened in 1907 at 1800 and the property of the control of the

lower end. The property also contains, considerable community, some beyrn and considerable mics, for which there is a market at \$15.00 per ton at Keystone, and also quite a little cassiterite, and all these minerals could be saved if the property was being operated for lithia.

Ingersoll Mine cont.

hne cont.

This property is owned by Mr C. H. Kamman, Hill City, South
This property is owned by Mr C. H. Kamman, Hill City, South
Dakots, who has given Mr Dennis Homanit an option to may the
new the sease of the
prior to January ist. 1920, in which event any payments forthogalty
are to apply on the purchase price, in the event that the i
payment is not made in full by January ist. 1920, Henault to
have until Kovember 1st. 1920 in which to aske payment, but then any royalty payments made during 1919. do not apply on the purchase price.

As this property seems the most promising, I took more samples than from any other place, the samples are as follows: Sample smbligonite from the ledge in upper cut.

Sample ambligonite from the ledge in lower out. Sample ambligonite from tunnel, this is supposed to carry

about 12% litiia. Sample spodumene taken from stock pile.

Sample lepidolite from upper cut and stock pile, in this bag will be found one piece of ambligonite and lepidolite. Sample lepidolite from tunnel, this represents the average of the tunnel, and there is a very large amount of it.

(Class B. Wood Tin Lode. Duc. (ULSSS M.)

This property is located about 4 miles east of Keystone, and is reported owned by the Maywood Chemical Oo the wagon road for three miles is fair, but the last miles is very steep and bad, and the ore would have to be hauled up some very steep thills, the dyke which contains the spoulment stands up from the creek for about 200 feet nearly vertical, and a vein of of spodumene seems to extend from the top to the bottom of the dyke, we were unable to make a close examination of the vein, as there was no way we could get down the face. the property has not been worked for about 20 year; there seems to be quite a quantity of spodumene available, but it will be expensive to work owing to its location both on account of the poor roads, and the height and lay of the deposit. Sample of spodumene taken from the top of the deposit.

Dewey Claim.

(Class B.) This property is located at the foot of the Harney Peak mountain, and about 4 miles from the railroad, the connecting road is in very bad condition and has been but little used for many years and so is overgrown with brush(we had quite some diffiyears and so is overgrown with grusning had quite some diffi-culty in locating the mine as it was concealed by the brush; It is owned by Mr EE Nelson, who lives close to the property. There are two open cuts, one about 10 feet by 10 feet and the other 10 feet by 40 feet and there is not much of a dump, how-ever the face of the deposit shows more speciment shim any ever the race of the deposit shows more spodmene than any deposit we saw except the Etta, and the quality is of the best, in that it is hard and not decomposed, there were more crystals of spodmene in sight than elsewhere, and I believe that it might pay to do some properting work here, as very thick has been done, we traced the spodmene for about 100 feet in length the dyke is lower than most of the others and quite long. Simple of spodmene such from the dump.

Swansey Group of Mines. (Class B.) up of whes. (Usas 5.) These mines are all located together about two miles from Keystone, and the haul would be over a fair road, the differ-ent openings have been called different names, such as Bull Cona Swansey, DERICKERS, Boomerang, Grey Hound, and Harris.

Swansey Group Cont.

David Swansey is reported to control the Swansey opening, he Juvia to wrange is reported to control the Swangey opening, he lives at Keystone, "Herman Reinbolt, Ganha is supposed to control the Bull Conn, Boomerang, and Grey Hound, I found a notice on a tree, which stated that he had done the assessment work. There are several open cuts, which are say 50 feet will and 50 to 75 feet long and high, and all show considerable mixed spodumene, and the clear spodumene is of good quality, and some work might develope more of it, although there is not very much in sight in the faces, which are opened. Only spodumeneds found in these deposits.

A Mr. Harrias is supposed to control the Harris claim, I could not verify this however.
Samples of spodumene taken from dump at Bull Conn.
Sample of spodumene taken from dump at Harris.

(Class C.) Tiger Mine.

une. (Ulass C.).
This property is located about five and one half miles from
Keystone, and the haul would be over very bad and hilly roads,
it is owned by John Moody, who lives near the property, there
is one open cut about 20 feet high and 15 feet wide which shows
a small amount of ambligonite, also a shart if the shows some of the same of we preserve the interest of the transfer of transfer of the transfer of the transfer of transfer of the transfer of transfer of the transfer of transfer o

Equality Lode. (Classes)

This property is owned by Mr George Madill, Keystone, and is
located about 4 miles to Keystone, the roads are bad, there are
several open cuts all of which are very small, and a little
ambligonite has been found, quite a little spodusene has been
located considering the small amount of work dons and this is hard and of good quality. Sample of ambligonite taken from dump.

Sample of lepidolite taken from ledge.

Bond Mine. (Class C.)

This is also called the Beecher claim, and it is located about four and one half miles south of Custer, and is owned by four and one half miles south of Guster, and is ewned by W. R. Bond, Guster, So. Dak. in 1907 about seven carloads of sabligonite were shipped from the place, and the property has not been worked since judy the place, and the property has not been worked since judy has not been worked since judy has not been done, and there are five open cuts about 40 by 50 feet and five sharfs of which three are 40 feet deep, at 40 feet the shart went into clatch, the faces in the cuts show some few large crystals so the faces in the cuts show some few large crystals of the faces in the cuts show some few large orystals of the faces in the cuts show some few large orystals of the faces in the cuts show some few large orystals of the faces in the cuts show some few large orystals of the faces in the cuts show some few large orystals so the faces in the cuts show some few large or the faces in the cuts show the cut when the cut show Sample of black lepidolite taken from dump.

Tin Mountain Claim. (Class C.) This property is reported owned by Hibbard, Spencer & Co. Chicago, (the care taker was away so could not verify this) it is located five males west of Custer, and there is a good road to the property, we found what looks like ambliconite in the dammed but are not sure that it is ambliconite so sent in the family of the Tin Mountain Claim Cont.

in the face of the openings, of which there are two, and which are about 40 by 50 feet each, Sample of spodumene taken from the dump. Sample of what may be ambligonite taken from the dump.

Tin Queen Mine. (Class C.)

This property is located about one and one half miles from Oreville, and is owned by Mr. Frank Herbert, Hill City, So. Bak, This is a small of a small by Mr. Prank Herbert, Hill City, No. mas, the road to it is very poor and very little work has been done, one open cut about 15 feet wide and 50 feet long shows very little mixed ambligonite, this property is the only one we visit ed, outside of the Etta which has any machinery, and it is equiped with a hoisting engine and a boiler for steam drills. Sample of ambligonite taken from the dump.

The Hugo. (Class D.) Change 20.7 ptty is owned by Herman Reinbolt, Cmaha, Neb. who has to erry attractive summer camp on the property itselfacibit is said to have made a large amount of money out of a potash operation during the period of the war) It is located about one half mile from Keystone over a very good road; before it was worked, it had the reputation of containing the largest amount of smolligenite of any property in this section, and about 4000 tons of this nite or any property in this section, and about 400 to be so can come was sinpled from it there are several openings, the upper one is the largest and is about 30 feet wide and 100 feet high, at the bottom there is a tunnel about 100 feet long which did not reach the ore, no work has been done since 1918, and Reinbolt is reported to have said that the deposit is all worked out, Henault say that there is a good possibility that more ambligonite may be found in the lower workings, no drilling to develope this or any other property has ever been done as far as I could learn, there is some spodumene exposed in the faces, and we found a very small amount of ambligonte also in place. Samples taken from the ledge of ambligonite.

Samples of spodumene taken from the ledge, also a white material to be tested for lithia, there is a considerable amount of this white material.

The Peerless. (Class D.)

This property is one mile south of Keystone, and is heased by Reinbolt, and owned by the Peerless Mining Co. Madison, Wis. it is a large open cut and contains subligantie, it was first opened in 1907, and some considerable shipments were made from it, it is reported as being all worked out, we found a few pieces of ambligonite in place, the property does not contain any spodumene, it is estimated that for every ton of ambligonite shipped at least 25 tons went to the dump. Sample ambligonite taken from the ledge.

Samble lithiaclite said to contain lithia, to be tested.

Everly Lode. (Class D.) This property is owned by the heirs of Louis Everly, and is a small prospect, it is located two miles east of Keystone, and has small prospective is located we make east of negations, and one shart about 15 feet deep, and two open cuts which show a little mixed ambligonite, nothing has ever been shipped from this property, the road is poor. Sample of ambligonite from the ledge.

Nichols Mine. (Class D.)

This property is owned by Henry Nichols, Keystone, and was open-ed in 1907 when one small carload of ambligonite was shipped

Nichols Mine Cont.

the ambligonite is found in kidneys in the 18dge, there is one open cut about 50 feet wide and 100 feet lang, the dump is small and shows but little work done, the property is about five miles from Keystone, over a bad road.

Sample ambligonite taken from stock pile of about 1500 pounds.

Sunday Traction Claim. We could not locate this property, I find that several of the properties have been located and taken from the government by some proppector and given a name, and then given up and later on again located by someone else under a different name, which may explain why we could not find some of those mentioned by the geological reports.

Located near Keystone, and controlled by Reinbolt, it does not contain any ambilgonite or spodumene, but has some lithiaclite. It has no lepidolite. Dyke Lode.

Lost Bonaza Mine. This is one and three quarters miles north of Custer, and is a mica mine and does not carry any lithia ores.

Sarah Mine. This is the same as the Hugo. ( have b)

First Find Mine.

We could not locate this property.

Page 6 Christian Mine. This is supposed to be the same as the Hugo, as this mine was located by a man named Christian.

Louise Claim.

Located one mile south of Oreville, and owned by Mr McDermott who said that it does not have any lithia ores. Mr Meadowcroft in a letter just received, says that you think the lepidolite cannot be separated because that you think the replacitte cannot be separated because its specific gravity is the same as the quarts and felspar, the text books show there is a difference of several points, and I was told in Denver that successful separations had been made between materials which were say 2.5 and 2.7 in specific gravity, so I would suggest that you have tests made of the specific gravity of the lepidolite and the quartz and spar specific gravity of the lepidolite and the quartz and spar with which it is associated, as there must be over 100 tons of lepidolite on the Ingesell property for every tonof the Other lithia cres, and of this problem could be solved there would be no trouble in obtaining all the lithia you will need at a reasonable cost. I will talk this over with you as soon as I return.

There are very large deposits of this material in South Dakota Timestone. but at present no quartes are in operation, the quality of the stone is said to be very good, the nearest deposit to Hill City on the Burlington, is located at Pringle, and the present Freight is 80 cents per ton, I have no doubt but what limestone

can be found nearer. The United States Gypsum Co. operate at plant at Piedmont, South Dakota, and quote the crusher rock(21nch and finer) at \$3.50 per ton f. o. B. mill, with a freight of about 20 cents per 100 pound to hill olty, the fine gypsum(tant planter) costs 50 cents per ton more.

Mallory.

Mallory. Gypsum.

Hotel Franklin, Deadwood, South Dakota, September 27. 19.

Just before I left the east, you said that spodumene was much easier to work than lepidolite, so since my arrival here I have spent considerable time on the spodumene situation.

The Etta mine is in a class by itself, but the next best prospect is the Swansey, which I looked over when I was last here; this property is owned by favid Swansey, who is land poor, and he is of the type, that if anyone wants to buy anything from him, the price goes out of mine the man to bus the swansey claim, and he sent word that he was too bus to go with us(he works in a saw mill) but that we might go, which we did, but as Henault did not know the property as well as does Swansey, I did not see it as thoroughly then as recently.

After I had satisfied myself that the Swansey property might prove to be of interest to us, the problem was to get Swansey to come and ask me to consider it, so I watched until I met his wife on the road return-to her home and had a talk with her, and as a result the next night Swansey called on me at Henault's and asked me to visit his property the following sunday, which we did.

Last fall a man from Chicago came to Keystone, and talked
"big", and took options on some properties, then he cashed several checks
and skipped out before the checks came back unpaid, so strangers are regarded with considerable suspicion. (some days ago a chemast came to Keystone
and when he met me, he said."I used to be a chemist for Edison, many years
ago, are you not Mr. Edison secretary?" I replied "no", his name is Dr. Ross)
Before I talked price to Swansey, I said "I am not like the

man from Chicago, as I am willing to pay cash for an option, and then if I fail to accept it, I will forfeit the cash paid"- the prospect of getting

some cash interested him and I offered him \$3000. - cash for his property, 10% to be paid in cash on signing proper papers, I to have an option to test out the property, and if I accept it I am to pay \$2700. - cash and get fag good title, if I do not accept the property he is to keep the \$300.-, know-the type of man I made my first offer very low, he turned my offer down and asked \$30.000- cash.

I have been trading with him for several days, and I have slowly raised to \$5000.- and he has dropped to \$6000.- under the following conditions, 10% to be paid in cash(from which he will pay up the back taxes) an option for six months to test the property, and if we accept it after examination, we are to pay \$5400.- in cash on delivery of good title, (he says that there is a ledge on the claim which carries gold, which ha wants to reserve, it is so located that it will not interfere with the lithia operations), so I now stand at \$5000.- and he is at \$6000.- and I feel that he will split the difference, as he is much interested in the 10% cash payment.

It is my judgement to make a deal with his, provided he will give us an option until July ist. X8.1920. to test the property(during the winter the ground may be frozen, which would make the work costly) so if you approve please have Meadoweroft telegraph me care the Bickel Franklin, Deagwood, South Dakota. "close with David terms stated twelve months option five thousand", and if I have to go higher, I will do so; I realize that & Swansey is the type that may jump the track any moment, so we cannot be sure of him until the papers are signed. (description of the Swansey proparty is herewith attached)

Now about the Ingersoll on which Henault has an option from Mr. Kamman for \$10.000-, which must be paid before Nov. 1st 1920, and for which you authorized me to pay Henault up to \$2500.- for the option; I have avoided talking business with either of these two men(I have lived with Henhault for the past ten days), as I wanted to develop the Swansey matter, Both Kamman and Henault know that I am dealing with Swansey.(further description is attached covering the Ingersoll group)

There are three plans which occur to me in connection with the two properties.

ist. If I am able to get a proper option from Swansey, not to buy the Ingereoll now, but take the chance of getting it next year, as from what I know, there is but little chance of Henhault being able to raise the \$10.000-.

2nd. Buy the Ingersoll option from Henault at lowest possible price, getting the consent of Kamman, so that we will be able to delay the final payment until Nov. 1st. 1920, and then if the Swansey turns out well we can forfeit the money paid to Henault for the option.

3rd. If you want to now settle for your supply of lithia, I will offer Kamman \$10,000- each on delivery of proper title, and try and get him to settle with Henualt(a crasy French Camadian when it comes to business) as I believe that Kamman can handle him better than I can, and I feel that Kamman wants cach enough to make some sacrifice to Henault, who has already received nearly \$1500. - from the ambilgorite which he recently chipped, in case this plan does not work I will go up to \$12500. - if necessary.

You will remember that I wrote you from California, the Stew art mine was shipping lepidolite to Wheeling, West Va. for use in the glass plants, and charging \$18.- per net ton f.o.b. Temecula, Cal., the fræaght from Temecula to Wheeling is about \$15.70 per ton, making the delivered cost \$33.70 Wheeling.

If you should decide to purchase the Ingersoll now and wanted to develop the length of the lepidolite vein matter, I could stop at Wheeling on my way east and see what can be done in the way of sales. The freight rate from Keystone to Wheeling is \$8.70 per net ton, so if we sold the lepidolite at say \$30.- per ton delivered, it would net us \$21.30 per ton f.o.b. Keystone, or say \$19.50 f.o.b. mine, and as to the quality, we can ship just as good grade as that shipped from the Stewart.

Common labor here gets \$4.50 per sight hours, and is better that the Indian labor of California.

If you decide to adopt either plan one or two, please have Meadowcroft telegraph me here, "follow plan one" ob two, as you decide.

If you prefer plan three or think of some better plan, please wire "you are authorized to pay a total of ten thousand cash for property and option, on delivery of proper title, otherwise close with other party" \*
or give details of the suggested plan in the telegram.

I have located, thru Chicago friends, the name of reliable KKKENNEEN, who are located here, and I will be fully advised before I return to Keystone, and will take with me proper forms of options and agreements.

Will wait here for you reply by wire.

Sincerely Yours.

Mallory.

\* I want to use the telegram when I tak note Kamman.

Swansey Property.

This claim is patented and owned by David Swansey, Keystone S.D. and it is located about one mile from the Burlington railroad station at Keystone, the claim is 600' wide and 1500' longEX and contains only spodumene, a sketch "D" attached shows the deposit which is interesting as it is located on the side of the hill, and the spodumene bearing groud is about 300' high X 550'long, I had Swansey dig small holes in the earth in several places and in nearly all of themsome spodumene would be found, indica-ting as the ground is so impregnated with spodumene, that there must be a ledge somewhere near from which it came.

while there are two large dirt outs, there are several smaller outs, and pieces of spodumence are found in all of them, some of the ledge is exposed in two places, but not enough to tell much as to its extent, most of the ledge exposed carries hard crystals of spodumenc, but also has crystals which are soft and seem to be decomposed(I have found piece of the fingers, can be made much harder by keeping it in the alcohol flame for ten minutes, perhapse all the soft pieces could be treated and saved, my spectroscope tests give lithia in both the hard and soft pieces)

There is a good deal of earth over the ledge, but Swansey

s-ays that if it is handled with prong shovels, he is positive that enough shipping spodumene will be recovered to more than pay for the cost of stripping, - Henault admits that this deposit is the best spodumene prospect outside of the Etts in this district.

There is a single wagon road for about one half mile, which could be put in good condition at little cost, the second half mile is at the bottom of the gulch, and is badly washed out, and it would cost considerable torepair it, and then it would become washed out again and cost considerable to maintain it; if a new road of one half mile is built

(2)

on the side of the hills, several steep grades for loaded wagons would be out out and the road would cost much less to maintain, Swansey and Henault selimate
it will cost about \$1000. to build the half mile, but I believe it will besafer to figure \$200.- and repair the old one.

If you decide to take an option on this property, and I can get for a year, you will have the chance to take the trip here and look it over after it has been developed, you will remember that you said you would like to motor out to this country.

In June I sent you samples from this property, You will find them in the chemical laboratory, under the names of "bull con" and "Warris", I am also sending you some of the soft spodumene, under separate cover, so you can see what it is like.

Opening 50' X 75', which shows ledge containing hard and soft pieces of spodumene, the top of the ledge is covered with dirt, so I could not tell how thick it was.

Open cut 50' X 50', which contains hard spodumene all thruthe dirt, the pieces of spodumene vary from the size of a match to 8' cubes, and all are hard.

Tunnel, not long enough to reach the ledge.

Places where I have marked "X" is where I dug in the earth and found pieces of spodumene, also around the trunks of the trees it is also found.

Sketch showing cross section of the Swanney Claim.

Not drawn to scale.

Ingersoll Prop-erties

Since my return here, I have gone over this group much more in detail than on my first visit, and I am attaching herewith sketches A. B. & C. which will give you a better idea of them.

Sketch A. shows the line of location of the Ingersoll with the other lithia deposits.

Sketch B. shows the general outline of the Ingersoll group of

properties.

Sketch C. shows about the position of the five pegmatite outcrops. on the Ingersoll.

Dyke #1 has not been proppected.

Dyke #2 contains ambligonite and spodumene, the principal opening is about 30' wide X 40' high, in this out there has been found quite a namber of large crystals of ambligonite, Henault says more ambligonite is found than spodumene, and both are good quality, several good sized crystals of ambligonite can now be seen in the ledge.

Dyke #5 contains ambligonite and lepidolite, the principal opening is about 30' wide X 50' high, and cross cuts about 30' of the coarse crystal purple lepidolite, which my spectroscope tests indicate to be of the highest quality, then there is about 10' of mixed quartz and lepidolite(80% quartz) a and then crystals of ambligonite.

About 100' below this opening the tunnel is located, this tunnel is 255' long and fob the first 200' it cuts thru mica schist state, then for 55' thru the vein matter, and then it ends in a cross out, which is 48' long and which runs nearly north and south; for about 150' the tunnel runs nearly east, then it bears to the southeast for the balance of the way, and as the lepidolite deposit seems to run nearly north and south, the tunnel does not out the vein matter at right angles.

The tunnel is about 6'%6' and is practically free from water, in sampling I put up a 50' tape line and first fastened it to the

north wall, and then took a sample every foot, and then did the same on the south wall, while taking the samples I had Henault break off the quartz and albite in several places and in some we found that there was good lepidolite behind the quartz or albite, which seems to prove his statement that the lithia minerals are found in kidneys, which are surrounded by either quartz or albite or both.

From Rapid City S.D. I expressed a keg containing samples taken from the two sides of the tunnel, and if you will have someone lay them out in proper order, it will give you an idea of the vein matter in the tunnel; - the north side samples are marked N.S.#1- up to N. S. #33, while the south side are marked S. S. #1- up to S. S. #30.

With the north side samples you will find in samples #25 and 26, what Henault calls white lepidolite, and which shows lithia under test. and with the south side samples from #26 XX to #30 you will find ambligorite mixed with albite.

Hand Picking.

I have looked quite carefully over the lepidolite in the tunnel and on the bank and stock piles and dump, and I believe that by proer hand picking, the shipping grade can be materially improved. Ambligonite on Stock Piles.

When I was here in June, Henault told me that he had negotiations on thru which he hoped to sell the ambligonite then on the stock pile and he had given certain parties the right to purchase it, he wrote me the latter part of August that he had not received any shipping orders up to that time, but on my arrival I found that on Sep. 5th. he received shipping orders, and he loaded and shipped to the Standard Essence Co. 37 tons at \$40 .- per ton f.o.b. Keystone, this cleans up all the ambligonite on the stock pile.

Length of Lepidolite Deposit.

I have tried to find outcrops which might indicate the length of the lepidolite, but without success on account of the dirt covering, Henault says he believes the vein matter runs the full length of #3 dyke but he has no way of proving it, the best way to find out would be to run a cross cut.from the tunnel.

Percentage of shipping ore to be obtained by hand picking.

I have maintained that about 50% of all the ore which would come out of the tunnel, based on the samples which I have sent to you, would go to the dump, while Henault and Kamman both insist that not more than 25% would be sent to the dump, the real fact probably is somewhere between 50% and 25%. In the open out at the top, based on what is exposed, all of the lepidolite could be shipped, as it is practically free from quarts or abbite.

Power at Keystone.

The creek which runs near the Ingersoll and that which runs thru Keystone, are both dry at present, and are in this condition many summers, Spring creek, which is about 7miles from the Ingersoll property, is larger than the local creeks, but it is nearly dry at present, but I am told that considerable watker flows during the rest of the year.

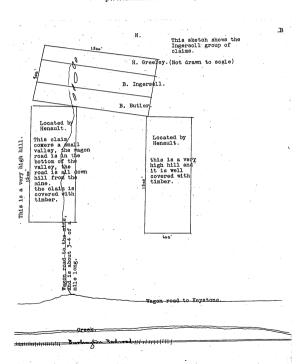
The Dakota Power Co. have a water power on the Rapid creek, and light Rapid City and send the surpluss to Deadwood and Leads, which is about 60 miles, and on a direct line from the power plant it would be about 15 miles to Keystone, as soon as I hear from you as to the plan you want me to carry out, I will then get some information from the Power Co., I believe it is not wise to talk about power to them until the properties are secured.

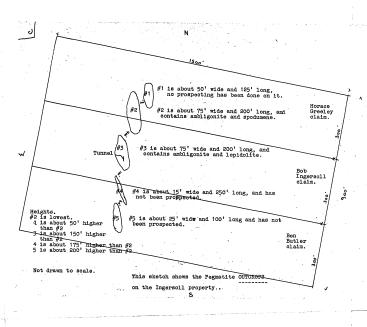
Incersoll.

This sketch shows the general line of the pegmatite outcrops, and the lithia mines, the distance from the Ingersoll to the Swansey is about four and one half miles.

Hugo.

 $\bigcap$ 





WESTERN UNION

......

# THEO, N. VAIL, PRESIDENT

SEND the following Night Letter, subject to the terms on back hereof, which are hereby agreed to

New York, October 3,1919.

W. S. Mallory, The Franklin, Deadwood, S.D.

Close option with David for five thousand

ten percent down.

Meadowcroft.

Walson option with Close with Devid ent for five Thousand, ten perdoun-

Hole Franklini

Dealwood, So. Dakola

#### weste<u>rn</u> union

Fern 2250

RECEIPMENT DE

### NITERSHAME

SEND the following Night Letter, subject to the terms on back hereof, which are hereby agreed to

New York, Octobe 3,1919.

W S Mallory, The Franklin, Deadwood, S.D.

You are authorized to obtain an option to purchase the property for ten thousand dollars based on delivery of good title. If this is refused, close with the other party.

MEADOWCROFT.

to chain to authorized to chain to peroperty for ten haus and dallars of good Title, if their with the ather party.

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## WESTERN UNION

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46NYC 50NL ORANGE, N. 4.

DE ADWOOD SD OCT 3 1919

W H MEADOWCROFT

ORANGE NJ

FOCUL -

WILL GET BUSY ON DAVID DEAL OTHER TELEGRAM NOT CLEAR
DO YOU MEAN TO PURCHASE PROPERTY AND EXISTING OPTION FOR
TEN THOUSAND OR TO GET NEW OPTION FROM OWNER PROPERTY
WHICH WILL BE EFFECTIVE AFTER EXISTING OPTION HAS EXPIRED AND
RUN RISK OF PRESENT OPTION NOT BEING EXERCISED ANSWER HERE

W S MALLORY

922A 0C4

428 Lathrop Ave., Boonton, R.J., October 3,1919.

My dear Mr. Mallory:

I received your letters and sent you a telegram explains that the "Old Man" was away for the day. I thought perhaps it best to relief your mind while you were waiting and with such a possibility of "trub."

He had a couple of stok days this week and when he came in yesterday morning he had so much to do that he could not take time to thoroughly digest your letter. So he took it home last might and went into its prefully, with his result with the result of t

No. 1: "Close option with David for \$5,000 10% down. Meadowcroft"

No. 2: "You are authorized to obtain an option to purchase the property for \$10,000, based on delivery of good title. If this is refused, close with the other party. Meadowcroft"

This telegram you will undoubtedly realize relates to your Plan No. 3. The Old Man wrote out both telegrams in his own handwriting.

The samples came and I have opened them up and I have shown them to him. Ho has examined everyone of them.

He gave me two notes to send to you by letter. I will quote them below, just as he wrote them in his own handwriting.

No. 1: "In one photograph you say this shows the character of the hill, which is very steep. The photo does nt show a hill Again, the other photos are extremely bind. If you had traced the sides of the dyke with a pen or had measured the width between walls where the man stends, it would have given me a clue.

No.2: "Mallory: Are Ingersol Mines patented?
You say Swamsey Hine is patented. In it a final patent or must work be still done on it and inversol."

I am giving you these just as I received them.

You will be glad to learn that the Old Man is all right now and seems to have cotten rid entirely from the trouble that he hel entire in the week. Everything else is going about the same as mand here and everything seems the precising.

With kind regards and hoping that your finger is better, I remain,  $% \left( 1\right) =\left\{ 1\right\} =\left\{ 1\right\}$ 

Yours sancerely.

Mr. W. S. Mallory, The Franklin, Desdwood, S.D.

Mallory

In one shalegh your and this shows the Character of the hold which is owny steep. The photo doesn't when a hilf

description the atter photos one extremely blind - it you had bruced the scales of the degle with a pen of had measured the contitle telescen weeks whom the could never given me a clear

Water.

MacCony

Observed nemes patented you say swarred nemes. we fatented to it a final patent or must work by otice done out + Lupront western union

Fenn 2289

RECEIVERS NO

MAL PILED

NIGHT ETTER

SEND the following Night Letter, subject to the terms on back hereof, which are bereby agreed to

Deadwood, S.D., October 4, 1919.

W. H. Meadowcroft, Orange, N.J.

telegram not clear. Do you mean to purchase property and existing option for \$10,000 or to get new option from commarproperty which will be effective after existing option has expired and run risk of present option not being exercised. Answer here.

to Thousand for piece feety trackly and the cost of Option up the

10/4/19
What is it you do not understand

Motor Fralloy

Dearmord

# Western Union

Ferni 229

SIVERS OF

Hill City, South Dakota

SEND the following Night Letter, subject to the terms on back hereof, which are hereby agreed to

October 5,1919.

W.H.Meadowcroft, Boonton, N.J.

Plus existing option at price stated adjoind them deal with both parties at one. Your telegram reads you are authorized to obtain option to purchase property at price stated. If you mean buy existing option 1 can then deal only with holder of pattern and the manner of the paymer of the paymer of the paymer of the paymer of the plan of the paymer of the pay

W. H. MEADOW CROFT.

Maccom 10/6/19	
You can use Third	
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W. H. newark	
what	
The second secon	3

W. S. Mallony 10/6/19

Keystone S. D.

If in your judgment it descrate you can also Close David arrangement on terms states in your letter Microcoverent by U. Am Microcoverent Sent by 19/2/19

Sent by 19/2/19

Secretary 19/2/19

Secretary 19/2/19

Keystone, South Dakota, October 6th. 1919.

Dear Mr. Meadowcroft:

Relative to the telegrams, if you will refer to my letter of Sep. 27th. you will find that I ask a decision on three propositions. in relation to the Ingersoll property.

> Qst. To not buy the existing option now, but take the charge of getting it next year, when the existing option expires and if you wanted me to follow this plan you were to wire me to follow plan one. 2nd. To but existing option now, in which case you were to

wire to follow plan two.
3rd. To but the property plus the existing option, in which
case you were to wire me "you are authorized to pay a
total of ten thousand cash for property and option, on delivery of proper title, otherwise close with other party

I also suggested that in case some other proposition suggested itself as better than any of the three above, that you gave details of it in your telegram.

The reason I asked for the telegram to cover the third plan, was so I could show Kamman that my limit was \$10.000- for both the property plus the option, as I know that I will not be able to make as good a deal with Henault alone as I can with Kamman and Henault together,

When you telegram was received it read "you are authorized to obtain an option to purchase the property for \$10.000 based on delivery of good title, if this is refused close with other party" and as apparently refered to both plans two and three, I was at a loss to know just what you meant me to do, for if it was plan two you wanted carried out, I reasoned you would have wired to follow plan two, and moreover, your telegram might have referred to plan four which I could not understand, so to be on the safe side, I wired you for further instructions, which I now await.

I do not dare to show you telegram to Henault, in case

it is plan two you want me to follow, as knowing him as I do I know he would get it into his head that I was authorized to pay \$10.000. for the option and then I would have my own troubles to do anything with him, nor can I use it with Mr. Kamman in case it is plan three which you want to follow, as it does not show that my limit is \$10.000. for both the property plus the option.

My judgement is that what you want me to do is to carry out plan two, but I do not want to move until I am sure.

Your telegram about the Swansey property, also left out the most important matter, and that is of the time of the option, for that is where I am going to have my hardest fight, I feel it is necessary to have practically a year to test the property, as if the winter is like most winters here, it will be May before much exploring can be done at the minimum cost on account of the frost in the ground, so your telegram is not as much help to me as it woulf have been, if it had been sent as I wrote it, however I will try and handle the matter without being compelled to use it.

I have already seen Swansey and we are to go over the property tomorrow, when I will try and get it closed, and by that time I hope to have received another telegram from you.

It has snowed here for the past 24 hours, but the sun is now out and the snow is going fast, this is the first snow I have seen fall in two years, as last year when it came, I was in California.

Sincerely Yours

Mallory.

W. S. MALLORY No. 8 West 40th Street New York

Keystone, South Dakota, October 11th. 1919.

Dear Mr. Meadowcroft:

Here is some information which may be of interest, your friends, the Standard Essence Co. are making arrangements to go after the export business in Europe as strong as they possibly can; they have figured that they will be able to get considerable business from Germany, as well as other countries, and they state that they will be able to undersell the European manufacturers.

I do not know what you contract may be with them, but it occured to me that possibly someone might be able to purchase some of the export lithia, at less than the domestic price.

Sincerely Yours.

W. S. Mallory.

No We could not under and

428 Lathrop Ave., Boonton, N.J., October 13,1919.

My dear Mr. Mallory:

I have received your letter of October 5th, and although you do not give me any address to which I may write, I am sending this letter on a chunce to Egystone.

I fully realized that the telegroms may have been other than you expected, but I used only the words that were given me by him.

He took your letter home and went over it at night, and then handel methe telegrams. I again onlied his attention to your letter, but he still adhered to the telegrams that he had written.

However, I hope the last one not everything straight and that you are making good progress.

With kindest regards, I remain,

Sincerely yours,

Mr. W.S.Mallory,

Koystone, Sc. Dak.

Keystone, South Dakota, October 14th. 1919.

My dear Mr. Edison:-

Knowing that you had found spedumene much easier to work than lepidolite, and also that the spedumene contains much more lithia, and can be shipped with much less gang (quartz and felspar), because it breaks clean from the surroundung rock, which means lower freight per unit of lithia, I have carefully gone over the Swanzey property, three times since I returned here, and it seems to me to have enough possibilities to warrant the expenditure of some money to learn just what it does contain.

The ledge which is exposed shows more spedumene than any deposit I have seen except the "Etta", but only a small portion of the ledge can now be seen, and that portion contains quite a percentage of spodumene which is decomposed, but everyone who is familiar with the spodumene deposits near here, tell me that all such deposits show decomposed spodumene near the surface, but that it gets harder when the excavations get a few feet from the surface.

I have taken an option from Mrs. Swanzey (the property is in her name) covering that part of Sitting Bull #1 Mining claim, which contains the spodumenc deposit, the option extends until June 15th 1920 (I tried to get it extended until August or September, 1920, so you could look it over during the summer, if you should wish to do so, Swanzey wanted it made April lat., but finally agreed to June 15th)

I have paid Mrs. Swanzey \$600.-, which covers the first payment of 10%, and the signed option has been sent to Hapid City, S. D. to be recorded, and will be returned to Mess Martin & Mason, Deadwood, S. D. who are our attorneys.

The following arrangement has also been made with Mr. Swanzey to start the exploration work to open up the ledge so it can be seen; - He 19 to give up his position temporally at the saw mill, and to hire three other men to work with him, these three men are to be paid at the rate of \$4.50 per day of eight hours, for every day they work, and they are hired by the day, Swanzey is to be paid \$5.00 per day on the same basis; They are to open up the ledge in four places, which Swanzey and I have selected, and are to work only on days when the weather is good, and if the ground becomes frozen the work is to be stopped until next spring; the soil is loose and full of small rooks which makes it easy to dig.

The spodumene taken from the soil is to be kept separate from that taken from the ledge, so we will be able to tell something about the amount the soil contains, and get an idea whether it will pay to work the soil for spodumene, as Swanzey thinks the spodumene it contains will more than pay for the stripping.

I estimate it will cost about \$500.- per month for labor and materials and I have limited Swanzey to this amount, and while I do not know just what will be found, I believe that two or at the most three months months work, should open up the property, so that we will be able to know whether it is all it seems to be; - I have reserved the right to stop the work any time we may want to do so.

While Swanzey is a very hard man to make a deal with, I am told that he is reliable and lives up to his word, and I have been impressed that such is the case, so I believe he will do the work as well as he knows how, for he is anxious for the balance of the purchase price, and has told me just how he expects to spend it, so to protect some other property, which he NECCS has located.

We are to have a weekly report giving the progress made and I will keep you posted as to what is being done.

A copy of the option is herewith enclosed, and when I reach Chicago, where I am known, I will make an assignment to you, so in case any thing should happen to me in my travels, you will not have any inconvenience in connection with the option.

I am writing you details of the Ingersoll mine situation in another letter.

Sincerely Yours.

Mallory.

P. S. Land which has been patented by the Government, does not need to be worked, as a patent is the same as a deed.

Land which is located requires about \$100 .- worth of work each year for a certain number of years.

Land which has been located, and on which the necessary work has been done, can be patented, by proper application to the Goverment and the payment to the Goverment of \$5.- per acre, and the fees for surveying, recording, lawyers && for one claim (about 20 acres) costs' about \$700.-

The above answers your questions in a letter received from  $\mbox{\em {\fontfamily Mr. Meadowcroft.}}$ 

As soon as the photographs I have taken of the Swanzes property have been developed, I will send them to you the repairs I had success made on the camera at Rapid City, S. D. were not a XEZEAS, as the shutter worked too slow, so that the pictures were overexposed, so I have been compelled to arrange with a young man to fetake the Ingermal pictures and they will reach you later.

OPT.

OPTION

OPTION

OPTION

In consideration of the sum of one dollar, in hand paid, the receipt whereof is hereby acknowledged, Caroline I Swanzey of Keystone, Pennington County, South Bakota, party of the first part, hereby grants of the MIXIX unto matter S. Mallory of few floor, the first part, hereby grants party of the first party of the following described property, to- with

cesuripea propercy, to- wis:
The northerly six hundred and fifty feet(650) of that certain
lode mining claim, known as the Sitting Bull No. 1 lode mining claim, which
contains a spodument deposit, located about one mile southingmently from the contains a spoumene deposit, located about one mile southenancerly from the town of Keystone, in Fermington Countyst, South Makota, and with the Surveyor Ball MG. I bode Hinling Chile and the Chile States Fatent whereof is dated on the 17th day of June, 1913. and the United States Fatent whereof is dated on the 17th day of June, 1913. and recorded in the office of the Register of Deeds in and for Fermington County, South Dakota, on the 18th. day of March 1914, in Dook "O" of Patent Records at page 72 thereof, reference to the 1914, in Dook "O" of Patent Records at page 72 thereof, reference to the 1914, in Dook "O" of Patent Records at page 72 thereof, reference to the 1914 in Dook "O" of Patent Records at page 72 thereof, reference to the 1914 in Dook "O" of Patent Records at page 72 thereof, reference to the 1914 in Dook "O" of Patent Records at page 72 thereof, reference to the 1914 in Dook "O" of Patent Records at page 72 thereof, reference to the 1914 in Dook "O" of Patent Records at page 72 thereof, reference to the 1914 in Dook "O" of Patent Records at page 72 thereof, reference to the 1914 in Dook "O" of Patent Records at page 72 thereof, reference to the 1914 in Dook "O" of Patent Records at page 72 thereof, reference to the 1914 in Dook "O" of Patent Records at page 72 thereof reference to the 1914 in Dook "O" of Patent Records at page 72 thereof reference to the 1914 in Dook "O" of Patent Records at page 72 the 1914 in Dook "O" of Patent Records at page 72 the 1914 in Dook "O" of Patent Records at page 72 the 1914 in Dook "O" of Patent Records at page 72 the 1914 in Dook "O" of Patent Records at page 72 the 1914 in Dook "O" of Patent Records at page 72 the 1914 in Dook "O" of Patent Records at page 72 the 1914 in Dook "O" of Patent Records at page 72 the 1914 in Dook "O" of Patent Records at page 72 the 1914 in Dook "O" of Patent Records at page 72 the 1914 in Dook "O" of Patent Records at page 72 the 1914 in Dook "O" of Patent Records at page 72 the 1914 in Dook "O" of Patent Records at Patent Recor registration of which said patent is hereby made for a more complete description of said Sitting Bull wo, Lode Chaim,, for the purchase price of Bix Thousand Dollars (\$0000.-)

Thousand Dollars (36000.-) Which purchase price shall be MEXEX payable as follows, towit: Minch purchase price shall be MEXEX payable as follows, towit: Six hundred dollars (3600.-) in each at the execution of this contract, the receipt whereof is hereby acknowledged, the balance thereof in the ous of Fifty four Hundred dollars (35400.-) to be paid to theme part of the First Mational Bank or beauty of the second part shall state of the purchase the process of the second part shall be purchased the processor of the second part shall be purchased the second part as as a second part as the second part shall second part shall be precised to the second part shall be processed to the second part shall be processe

It is further agreed that the party of the second part shall have the right to fall or refuse to make sait payent of Fifty four Hundred Dollars (\$5.00 -), when due, the sole effect of such fallure or refusal being that this option shall forthwith ease and determine time being the essence of this stipulation, and all payments therefore made shall be MANUNESPERMY. and remain the property of the party of the first part.

It is further agreed that the said second party shall have the right, during the life of this option, to enter upon said property and to prospect or develop the same and take, remove and ship therefore, product or specific prospect or develop the same and take, remove and ship therefore, produced by June 15th. 1920, not to exceed one hundred and fifty for the first and fifty of the first part. The product of t (\$10.-) per net ton for any spodumene that may be shipped, such payment, if any, to apply upon the balance of said purchase price in case thas option is exercised by MXXX the party of the second part, as herein provided, In case the title of the said Caroline I. Swanzey to said prop-

erty, or any part thereof, is not good of record, or fails, and in case the party of the first part does not proceed with beasonable diligence to perfect the sume, the second party is authorized to take such proceedings and to the same, the second party is authorized to take such proceedings and to make such payments as may be necessary or proper to perfect such title, deducting the reasonable costs of such proceedings, and the amount of such payments and also the oots of out the proceedings, and the amount of such the final instalment of the title to sail property from the final instalment of the purpose of the purpose of the final instalment of the purpose o

encumorance anali so resalance until such embrunce is saustice and regission. The undersigned will upon demand execute a good and sufficient deed to the second party, conveying the said property, closed the same labels and will place the same all two-det or with the First National Bank of Deadwood, South Bakotte, and two-det or the second party upon his saking the psymetre herein required on or before the time herein

required.

That whereas, it is the purpose of the party of the second part to transport said spodumene from said Sitting Bull No. 1 Lode Mining Claim to the station of the Chicago, Burlington & Quincy Railroad Company at Keystone, South Dakota, and

the water of the Unicego, Burlington & Quincy Railroad Company at Keystone, South Dakota; and Thereas, it is necessary to have a right of way for a highway from said Sitting Bull No. I Lode Mining Claim to said Railroad Station for such purpose; and

such purpose; and "Mereeas the party of the first part owns those two certain Lode mining claims, known as the Big Hit and Big Hit No. 3 Lode mining claims, adjoining the said Sitting Buil No. 1 Lode mining claim on the west. I close mining claims on the west. I close mining claim on the west. I close mining claim on the west. I claim the many claim of the ment of this contract, and without additional expense to the party of the second part, and in case the party of the second part shall exercise the option herein granted, to purchase the said property herein optioned, that then and in that event the party of the first part will grant unto the party of the second part, a right of way for a highway over and across said Big Hit highway in a general way to run from a point where it leaves said Sitting Bull No. 1 Lode mining claim and enters the said Hig Hit groupe of Lode mining claims in a northly direction for a distance of fifteen hundred feet to this top of the hill, and thence in a northwesterly direction for a constant Big Hit and Big Hit No. 3 lode mining claims.

WITNESS the hands of the party of the first part, this 7th. day of October, A. D. 1919.

(Signed) Caroline I. Swanzey.

State of South Dakota,: CountyMKOF Pennington. On this 7th Bay of October, A. D. 1919, before the undersigned a Notary Public MMKC within and for the said dounty and State, personally appeared Caroline I. Swanzey, above named, known to me to be the person who is described in and who executed the foregoing option and acknowledged.

who is described in and who executed the foregoing option and acknowledge to me that she execute the same. Witness my hand and notarial seal.

My commission expires-----

Notary Public.

#### Swanzey Property

In my letter of October 14, 1919, I reported as follows:

"The Swanzey ledge, which is exposed, shows more spodumene than any deposit I have seen, except the Etta, but only a small portion of the ledge can now be seen, and that portion contains quite a percentage of spodumene which is decomposed, but every-quite a percentage of spodumene which is decomposed, but everyone who is familiar with the spedimene deposits near here, tell one who is immiliar whin the spontment deposits near here, it me that all such deposits show decomposed spodument near the surface, and that it gets harder when the excavations get a few feet from the surface".

The development work which has been done during the winter confirms my impression of last fall as to the quantity of spodconfirms my impression of last rail as to the quanty of spoot-umene, but much of it is either decomposed or semi-hard (see samples) increto. I have again talked with several practical samples with have worked both on the Etta and the Sanzay, and they all tell me that when the Etta was first opened the Systems was just about the same as that found at the Swanzey.

There is much more stripping at the Swanzey than at the Etta, and the ledge has been reached only in a few places.

I asked Mr. Swenzey who believes his deposit is equal to the Etta to write a memorandum about it, which is he rewith at tached.

The photographs show only the larger logs of spedumene but a very large number of pieces from the size of a match up to say 12 inches cubes, are found all through the faces of the cuts, also the pite and trenches.

If we can use the decomposed and semi hard spodumene -I feel quite confident this deposit carries a considerable a west quite of millions this appeals carries a considerable quantity of it, probably all we will need for a long period; the present problem is to save the maximum amount of the soft spodumene; if the practical men are right, this problem will solve itself when the deposit is fully opened.

Your judgment on geology is so much better than mine, I feel you should see the property before a decision is made as to the purchase.

LABORATORY AND OFFICES

HENRY C. DEMMING

Nos. 15 and 17 North Third St., Hassussups, Pa., U. S. A. Cable Address:—"Marion."

Cosmitting thoughts, Minordagin and Cheesh of the Pillow of the American Gospanickal Sectors, Mandre Congress (colonism) formations, Mandre Congress (colonism) formations, Mandre Congress (colonism) formations, Menister Congress (colonism) formations, Menister American Cheesh Booker, of Appelle Congress (Congress of Congress of Congress (Congress of Congress of Co

Harrisburg, Pa., October 16, 1919.

Hon. Thomas A. Edison, Orange, N. J.

Friend Edison;

Answering your letter of the 13th, I recall now that a few years ago I made a geological examination in Ourborland and Amelia counties, Virginia, to ascertain the source of the Lithia found in the "Buffalo Lithia Water," so extensively advertised about that time, and found that some of the minerals near Farwille contained more Lithia than any mineral I have seen to this date.

I found so much Lithia there, that during a conversation with John Wanamaker, the merchant king of New York and Philadelphia, I told him, when
I had sufficient Lithia on hand, I would make a cup of the metal for him.
After working on the subject for some time I found that a very small cup of
Lithium metal would cost me \$5,000.00, and I reached the conclusion that such
a gift was a little too expensive for my pocket book. You, or your assistants,
may be able to find a larger percentage of Lithia in the vicinity of Parmville.
Prince Edward county, Virginia, than I did, while hunting for it in the countie
I have mantioned, as well as in Prince Edward. There are several Lithia water
springs at Farmville. I think that would be the locality for search for
minorals containing a higher percentage of Lithia than the localities I have
heretofore given.

Relative to the foliated graphite in Sussex county, the place that I examined contained the mineral in sufficient quantity for commercial working.

Amorphous graphite is so plentiful in North Carolina and South Carolina

that it seems to be a drug on the market, and therefore the deposit you mention at Iona Island in the Hudson river, would not be attractive to the centlemen who have been inquiring of me for flake graphite, or foliated graphite.

I hope that you will find all the Lithia you want in the counties of Yirginia I have montioned.

If I find any other bodies worth prospecting, or of certain commercial value, I will endeavor to report to you without delay.

Faithfully yours, Henry b. Denning.





# Andrews hatel

Chicago, Ill. October 18th. 1919.  Dear Mr. Meadowcroft:-	
I beg herewith to enclose a copy of the	
Swanzey option, which I expected to have assigned to	
Mr. Edison, while in Chicago, but I find that due to	
the H. C. L that it will spoil \$25 - to have it drawn	
and executed, so I am sending it to you with the	
suggestion that if you will have the legal dept. draw.	
a proper form, and then forward it to me, that I will	
sign-and-return, and then they can hold-it-so to be	
protected_in-case_I should_decide_to_elope,_or_do	
something else as foolish.	
Sincerely Yours.	
W. S. Mallory.	
·	

October 22,1919.

Mr. ". S. Mallory, The Homestead, Hot Springs, Va.

My dear Mr. Mallory:

I received your envelope from Chicago in which I found two letters for Mr. Edison, one about Swanzey, and the other about Ingersoll Hine, also two notes to myself.

the Swanney and Ingereoll. He locked them over and appeared to be satisfied, although he said it would have been better if you could have gotten a longer time than June 15, 1920 to explore the Swanzey property. He realized, however, that you have done the best you could.

He told me that when I wrote to you coknowledging these letters I should asy to you he would be vory glad to get the new photographs you said you would have taken. He also requested me to ask you to please arrange with your young man to take alone-up photographe are information to take alone-up photographe are information to the like alone of the photographe are information to the like alone and he on see how much work has been done. Of course, the photographs should be taken as closely to the same viewpoint as possible.

I am smolosing herewith the Assignment by you to Hr. Edison of the Swanzey option. You will notice that this is to be duted, signed, witnessed, and acknowledged before a Rotary Public. Then you can send it to me and I will keep it in our safe for the present.

I was much interested in your very vivid account of sleeping under North Pole conditions. As you did not get pneumonia or anything like that, you were pretty lucky. I suppose you have gone down to Hot Springs, Va., to thew out.

With kindest regards, I remain,

Your sincerely,

Silverbell, Arizona.

The Edison Laboratories

The Edison Laboratories

ORANGE. New Jersey.

We were the what to set of one containing defined this is so, and you are still desirous of obtaining save, I shall be pleased to hear from you relative to the matter.

I am in the mining business, an thoroughly responsible, and well known in this vicinity. I know where cres of Lithium exist, though never having so far mined for this mineral; having for many years been engaged in Copper.

If however, there is likely to be a fairly constant demand for Lithium I am ready to onter this field and could devote my time to this exclusively.

Should this enquiry receive any consideration from you, will present further that I have no knowledge of the marketable value of these ores, and to enable me to form a proper judgment of the matter it will be necessary to know the value per ton, -presumably relative to the percentage of Lithium contained -, what other minerals, if any, are deleterious for your purpose and are to be avoided or eliminated; and any other information bearing on the subject which suggests itself to you.

It may be that the price is so low that the mineral can not be mined and shipped from the West at a profit; but if you care to forward the above information I shall be glad to give the matter my best attention.

Yours Very Truly

815.0

Frank & Higgins.

Meadocraft Jog your IV. Edison Mallory Went there about depictories having been ap depictable of the the discovered in strong out the Geological Survey Leople wise to advise him further albert it. Mallong's first trop was to California and this second to South Dakola. However, I have looked our his reports and do not find any reference To this main Higgins , Measowarof Nov 3/19

Mr. Edison: Job of the Menting of the reason of the plant on on file was leccined fet was in the Chemical Refin among the ore samples.

Here it is
You will notice it is new Mero mexico - not opigiona.

However, I must confess that it had slipped my mind

Meadownofs

for the moment,

W. S. MALLORY NO. 8 WEST 40TH STREET Meadound better the fit this is put all things had been to this name togethe springs, va. November 5th. 1919.

Dear Mr. Edison: -

The exploration work on the Swanzey property is under way, and, the small tools, lumber, wheelbarrows and where been delivered and the work of removing the earth has started, a heavy snow storm has delayed the work somewhat, but the last report stated that it was going shead again. We have borrowed a small mine car and about 400 feet of track, and believe this will enable us to move the dirt cheaper than by the wheelbarrows.

I am enclosing herewith six pictures of the Swanzey property, on the back of each you will find a description of what each covers, and if you will hold these pictures, you will then be able to compare them with other pictures which will show the progress of the work, from time to time.

I have not yet been able to get any pictures of the Ingersoll property, and have asked Swanzey, who has our camera, to take them for us, and will send them to you as soon as received.

Henault has received the balance due him on the car of ambligonite, which was shipped early in September, and is now trying to get releases from Roos and McBaskey, and will write to me as soon as they have been obtained.

Just as soon as there is any further news of interest, I will write you again.

Sincerely Yours.

Mallory.

W. S. MALLORY No. 8 West 40th Strike New York be Literia

Baltimore, Md. November 25th. 1919.

My dear Mr. Edison: -

York).

Letters from Mr. Swanzey about the spodumene property, dated November 3rd. 9th. and 15th. reached me yesterday and today, two of them were sent to Not Springs, South Dakott in spite of the fact that both envelopes were addressed Not Springs, Virginia(written in full) and the to Not Springs, Va. other was forwarded, from the New York office after I had given instructions to have the mail forwarded to Baltimore, because the stenographer, who has been handling my mail, left and took another position.

The following are expracts from Swanzey's letters.

November 3rd. "The open out #1 is nearly cleaned out and we have made a start on the bench 40fest to the south, I found a boulder of reminder violet gray material which I believe to be lepidolite, which EXPRANCES me that that when theopen out was first opened, I found what appeared to be a large quanity of this same material, which was supposed to be lepidolite, and at that time worthless; I neglected to speak of it when you were here. Shall I send you a sample? (I have written him to forward a sample to me at New

Hovember 9th. "The weather we are having is remarkable for its severity, and not at all typical of our fall weather, we have had 15 inches of snow within the south, however the ground is dry, not frozen at all, so that when the snow is shoveled off we can proceed with the work which is progressing nicely. I intended taking pictures saturday(8th) but the weather was too foggy, will take them and forward at the earliest possible soment."

Hovember 15th. "We are having typical fall weather again and the snow on the south slopes has practically disappeared, work on the spodumene deposit is progressing; the upper cut #1 and the bench to the south W. S. MALLORY No. 8 WEST 40TH STREET NEW YORK

(2)

are almost cleaned out. I will start on the middle out #2 on monday the 17th. I have taken the pictures at the mine and have forwarded them to Rayld City to be developed and printed and will forward same to you as soon as received (there is no one at Keystone who can develop the films).

Based on the above the pictures should be received almost any day now, and I will forward them to you as soon as received; I have written Swanzey and asked him to give me his impressions of what the work already done has given him as to the amount of spodument developed to date and how much of the ledge has been uncovered, although I know considerable work must be done to clean out the cuts, before he can do yory much on the ledge.

Yours very truly.

Mallory.

W. S. MALLORY No. 8 WEST 40TH STREET New York

Sile - but note New York, December 9th. 1919. date a phone Expuses-

Dear Mr. Edison: -

I beg herewith to hand you extracts from the last two letters from Swanzey, which I find waiting my return here.

"Had the favorable weather continued uninterruptedly, I would have had the MXXXX cut(#2) cleaned out; I believe a weeks work will witness the cut cleaned out, and the bench to the south, in condition to profitably mine spodumene; - The more development work that is performed, the stronger becomes the conviction that a great portion of the west side of the mountain is a break over from the hanging (east) wall caused by erosion and other processes of nature; also that the horizon of the floor of the middle cut (#2), is the begining of the spodumene in place;- The face of lower cut (#3) is in the permanent formation and that cut continued, will produce a very large quanity of spodumene."

Also, "I am sending by this mail a small sample of what I believe to be lepidolite; I am much disappointed with the Art Studio of Rapid City, who have not yet forwarded me the pictures, I am writing them again about them."

As soon as the sample of lepidolite arrives, I will bring it to you and we will test it.

I have also written Swanzey, and also sent him enough money to pay them men up to December 15th, that if by that time he thinks that the exploration work has developed the property enough so to show considerable amounts of spodumene, to stop the work, but if he feels that some additional work is necessary, to go ahead from that date with one man to help him for a further period, I have done this for two reasons, I want to keep the cost of the work down to a minimum, and also to bring out just what Swanzey thinks of the outlook.

(2)

When we receive his reply, we can then decide whether to authorize more work, up to December 1st. the exploration work has cost about \$1000... for a period of two months.

I have not heard anything from Henault for about a month as to the Ingersoll property, so do not know whether he has been able to get a release from McCaskey, I wrote him a fer days ago, and hope to hear in a week or so, the longer the Ingersoll matter holds open, the less his option is worth, and the nearer the time is when we can deal direct with the owner. Knowing Henault as I do, I believe the best policy is to let him take his own time, for if we try to force the purchase of his option, the price will go out of sight. Henault has obtained a release from Dr. Roos.

Sincerely Yours.

W.S. Thallow

W. S. MALLORY No. 8 Went 40th Street New York

New York. December

Dear Mr. Edison: -

The last report from Mr Swanzey, about the spodumene

property, is as follows.

"I have gractically cleaned out the upper open out (#1) and excavated the bonoh to the south as far as I thought expedient, for the present, that is to the sture where we can begin the extraction of popular producement than I have not result more producement than I have not result where the things of the upper capacity of the producement of the producem was necessary in the cleaning out of the upper open cut and preparing the bench to the south, but in doing this

I estimate that we have obtained between four and six

tons of spontages. By shiftene with the Sapid City Photographer's is about exhausted, I cannot get any response to say letters. Just at present there is too much snow to render the table of views exhibitance. the taking of views satisfactory.

I have written Swanzey, that hereafter to

send me the films covering all future pictures, and I will have the prints made here.

I ought to hear from Swanzey in a few days,

in answer to my letter about stopping the work.

Sincerely Yours.

#### W. S. MALLORY No. 8 WEST 40TH STREET New York

file Hazleton, Pa. December 23rd. 1919. My dear Mr. Edison:-

The long expected prints of the Swanzey property have just been received, and  ${\mathbb I}$  am enclosing them to you. they are somewhat disappoint ing to me, as they do not show very clearly, what has seen done.

I wrote Swanzey sometime ago, to take more pictures, and to send the films to me, and I will have them printed in New York, and so save future delays.

You will find on the back of each print, comments made by

Swanzey, as to each picture. I am arranging to have the cross cuts made, in accordance with your suggestion made when I was at the laboratory, so that the property can be better seen next spring.

Just as soon as  $^{\rm I}$  hear again. from Swanzey, I will tell you what he has to say about continuing the work on the cuts.

Sincerely Yours.

This is a warming that heruster not to make any more afthese by a product but get all the whost warm of you have to rework it put to be loot like this

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Maintin 27,15%

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Acis Tris.

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HIOKEL PROSPECES. accord and attack

The "FATEGRIAND" Group of Mickel Claims are located about two
(2) miles South East of Marble Mount, Skagut County, Washington, a
Station ten (10) miles from the terminus of the Anacortes Branch of
the Great Northern Railway, and fifty (50) miles from tide water.

There are six (6) Claims, each fifteen hundred (1,500) feet long by six hundred (600) feet wide in a continuous line on the vein. The elevation is three hundred and fifty (350) feet above the sea level at the North East and the ground rises to two thousand (2,000) feet.

The course of the vein is North Rast and South West and Righteen (18) degrees East &f North, shows plainly on the surface at a number of places where the formation is not covered by soil and vegetation. The vein is very strong and well defined, being a fissurf and of a width from twelve (12) to forty (40) feet, ----both walls being Green Stone.

It can be easily opened up by tunnel and depth of fully Fifteen hundred (1,500) feet attained. There is a fine water power, the Cascade River, which will furnish One Thousand H. P. not over a mile from there the proper place to open this property is.

The ore has shown assays on the surface as high as Five (5)

Per Cent Nickel, and from two to ten Dollars in Gold. There is a
magnificent growth of Fir and Cedar Timber covering the ground,
suitable for mining purposes and lumber.

The place is accessible at all seasons of the year, there being rarely sufficient snowfall to cover the ground and never lies more than twenty-four (24) hours.

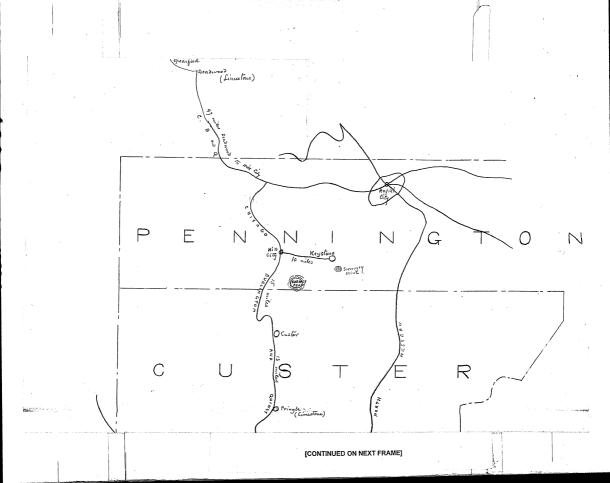
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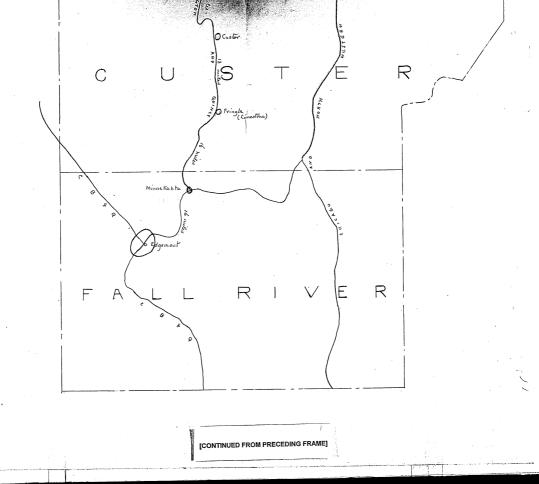
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#### Edison General File Series 1919. Mining -- Metals and Other Minerals (E-19-48)

This folder contains correspondence relating to mineral deposits, processes for the working of raw materials, and finished products. Among the metals and minerals mentioned in the documents are cullet (used broken glass), nickel sheets, feldspar, iron ore, selenium, cumerone resin, zinc, clay and lithium minerals, diamond bort, and slate. The correspondents include former Edison assistants and electric lighting pioneers William S. Andrews and William J. Hammer, Edison associate Theron I. Crane, geologist friends Henry C. Demming and George F. Kunz, Minnesota Geological Survey director William H. Emmons, Edison's brother-in-law Halbert K. Hitchcock of the Pittsburgh Pleta Glass Co., and Ernest S. Llebold of the Ford Motor Co.

Approximately 30 percent of the documents have been selected. Among them not selected are letters regarding business propositions and samples for testing that received no answer or a routine negative reply; items referred to chief engineer John P. Constable for analysis and reply; clay filtration test results submitted by T. Shriver & Co.; and price quotations on slate pieces. Also not selected are approximately thirty pages of unsigned notes on mines and minerals in South Dakota and on mineral extraction processes, which are closely related to the material in E-19-47 (Mining - General).

Trick Building Pittsburgh Pat semary 5, 1919.

Mr. Thomas A. Edison, Orange, N. J.

My dear Mr. Edison:

In headowcroft's letter in regard to cultet and would say further in this regard that I doubt very more to whether you could be a fact that I doubt very more to whether you could be the would next lower than the ordinary filint glass. The test of the bleckening in the flame will show up with the glass having a lead content as low as 28, which would not affect it requiring between 10% and 20% to greatly affect this melting point.

The question naturally will come up as to the best menner in which to get this cullet into the fine powdered form which you require. to give you a line on this procedure I am having one we give you a line on whis procedure 1 am maving one of my men run a thin stream of glass into water and thereby gramulate the glass, and am sending you a sample showing the nature of the product which results from this procedure.

When you take the ordinary cullet mad grind it in a ball mill, if you use iron you will get a considerable quantity of iron in your glass, and if you use pebbles you will get a large percent of stilca and some alumin, both of which would tend to reduce the melting point of the pulverised glass, so that it is very advisable, if you provided the tendence of the provideration of the product of the product observed the provideration of the product of the product of see for yourself the general nature of the product ob-The enamels used in potteries and tained in this way.

January Srd, 1919.

other places are made practically in this manner and there are a great many borosilion glasses that would be practically insoluble in water which would also have a very low melting point.

data which might be useful to you and I want to assure you that it is at your service and that we not assure you that it is at your service and that we will be very Elad to give you any information, and also perform any experiments which we might do to better advantage than you could do, in order to assist you in any undertaking along this line which you have in view, and we do this place in the control of the property of the

With very best wishes, I beg to remain

Very sincerely yours.

A.C. Hurar

1869 - Golden Anniversary - 1919

# Macbeth-Evans Glass Company

Pittsburgh

January 6 1919

Mr Wm H Mesdowcroft Edison Laboratory Orange N J

Dear Sir

cember 30

#### Cullet

An order has been entered at our factory,

and prompt shipment will be made of two pounds of each of the two kinds of cullet referred to in your letter of De-

Yours tr

HACBETHSEVA

Vice President

Howard S Evans/RM

J\_nuary . 8, 1919.

Mr. Harris T. Hooper, 415 Foxoroft Building, 68 Post Street, San Francisco, Cal.

Deer Sir:-

Vour letter of December 30th has been unbmitted to Mr. Eddson. He desires us to send you a small sample of the nickel flake wish we make for our stornse betweises. The thickness of these flakes is one-thentbeth of one-thousandth of an inch. and they are out in the small squares from the largest sheets that we make, which are 6 feet by 2 feet.

We are not entipped to make longer sheets in anything like the size you ment on. To put in the necessary manual to will be necessary to go to the necessary with the necessary to go to the season of the requisite machines. Unless the demand for such sheets was positive, thore would be nothing to workrontshuch a large investment of money.

We cannot furnish you with the data for which you ask.

Yours very truly,

Edison Laboratory

Enclosure.

If would require to quest an more required to preserve whether are whether at legaporate Edgs,

of believe your might get legaporate Edgs,

of there were might get legaporate Edgs,

of the set in a to experient principles, edges,

several sheets of capus put one antifers, edges,

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I think you for your label of such a backer there

of the night of your label of such a sheet for sheets possess pays true training and principles and are they as atrong a spear of so which which it couts as to

buy one about .000 of an ingh their of points in the several sheets for storage backers to that it is only a purpose, it is night to the four strength a could be treated to be place of this strength sheets which can be bud quant
ever expense, six or eight or ten foot wide and eighteen of treaty feet long. I do not know of anything thoratory, thought I would inquire at the fountainheed.

Thanking you for your attention, I remain,

Very truly yours,

(637<sup>3</sup>)

January 16,1919.

Mr. T. I. Crane, Roal Estato Trust Building, Philadelphia, Pa.

Dear Mr. Crane:

from Mr. Charles B. Mishop, No corth, a letter from Mr. Charles B. Mishop, St. Georges, Bay Street Newtoundland, in resent to a large deposit of magnetic iron ere in Newfoundland.

You will see from Mr. Edison's pencil memorandum on this letter that he wishes me to send it to you and let you decided whether or not you want to look into the proposition:

I have not acknowledged the letter as yet; so, if you are interested, you orn write to the gentlemen and tell him that Mr. Edison has turned over the letter to you.

Yours very truly,

Assistant to Mr. Edison.

Englosure.

A/6325.

T. I. CRANE WIDENER BUILDING PHILADELPHIA,PA.

January 17, 1919.

Mr. W. H. Meadowcroft, The Edison Laboratories, Orange, N. J.

Dear Mr. Meadowcroft:

I have your letter enclosing communication in reference to the from ore deposit in NewFoundland. I have heard of this property from time to time for the last twenty years, und at one time was interested in having an examination made of it through our friends. the Nova Scotia Steel Company.

There is doubtless a considerable amount of ore in this deposit, but the difficulty is this; it's high percentage of titanium, which no effort at concentration will remove. It is true that this ore might be used in an electric furnace, but thus fur electric smellting has not reached the ore stage.

I enclose copy of letter I have written to

Mr. Bishop, and remain,

TIC/B

10 \_

#### [ATTACHMENT/ENCLOSURE]

COPY

T. I. CRANE WIDENER BUILDING PHILADELPHIA, PA.

January 17, 1919.

Mr. Charles R. Bishop, St. Georges' Bay Street, Newfoundland.

Dear Sir:

Mr. Thomas A. Edison has referred your letter of the 8th inst., to me..

I regret to say that I cannot make any suggestions in reference to the St. Georges! Bay ore, as it has always been regarded as being too high in titanic for blast furnace use.

It is true, that it may be smelted electrically at some future time, but the electric furnace has not yet been developed to the point of treating orce.

Yours very truly,

TIC/KH

Mr. H. G. Hooper. 416 Foxoroft Building. San Francisco, Cal.

Dear Sir:- -

We have shown your letter of 'anuary 14th to Ur. Edison. 'Se mays it will require too great an invostment to prounce what you want. He believes you might set copper sheets rolled out to the size you went. Several shouts of coppor, placed one on the other, and rollted together, each sheet being previously ciled. They could be separated when rolled thin much they could be placed with a rolled the several to the placed and if necessary the copper dissolved of hydrogen sheets proved to the copper dissolved of hydrogen sheets proved to the copper dissolved of hydrogen sheets proved to the copper dissolved of hydrogen sheets are the copper dissolved of hydrogen sheets and if necessary the copper dissolved of hydrogen sheets and hydrogen sheet sheet of permandum. Any lovel nickel plater could probably give you points on this.

Yours very truly,

Edison Teberatory. ,

A/6373:

The University of Minnesota Minnesota Geological Burvey

OFFICE OF THE DIRECTOR

Feb. 7, 1919.

Edison Phonograph Company, Orange, N. J.

Sirs:

I am told that feldspar enters largely into the composition of phonograph records, and that the potash foldspars are used. In Minnesota we have large amounts of a lime feldspar which is practically pure, containing no quartz or grit whatever. Practically all the potash feldspar that I have seen contains some quartz. I could arrange with parties to send you camples of this material if you are interested in the matter. There is a mill near the deposit, which formerly ground the feldspar.

& MHE minous

WHR: VC

Director.

Very sincerely yours,

Mu & Bardishe interested

Mr. Education

generalis IEL

(6554)

February 11, 1919.

M. Gottesman & Co., 18 East 41st Street, New York, N.Y.

Gentlemon:

weefore Mr. Edison left for Floride yesterday he requested me to write to you and am you to send him a quotation on Sulphate Alumina in ton lote and larger lot:

He also wishes me to ask you whother you are actual menufacturers of this commodity.

If you wish to send sample of your produce, so that I can have it here exainst his return, please address it:

W.H.Meadoweroft, Edison Laboratory, Orange, N.J.

Yours very truly.

Assistant to Mr. Edison.

WOOLWORTH BUILDING, Attractive Prices CALCINED CARBONATE OF POTASH ALL GRADES SALICYLIC ACID U.S.P. JAPAN WAX - Spot Delivery -The Morel Chemical Company, Inc. Barelay 8240-0 New York, N. Y. INDUSTRIAL SULPHATE ALUMINA
ODA SALT CAKE CAUSTIC SODA CORRESPONDENCE SOLICITED CABLE ADDRESS: NAMSETTOG, N. Y. arbide OF AMMONIA Eugene Suter & Company

120 BROADWAY, NEW YORK

CK CO.

February 13,1919.

Dr. W. H. Emmons, Director, The University of Minnesota, Minnesot Geological Survey, Einneapolis, Minn.

Dear Sir:-

Your letter of February 7th has been received. While we do not use feldspare in the composition of phonograph records. Mr. Edison is interested in this material, and I thigh that would like to have some samples from your State. If it is not too much rouble, you could have the few secsimens sent to me and I will bring them to his attention when he returns from Plorids. Please address them.

W. H. Meadowcroft, Edison Laboratory, Orange, U.J.

Yours very truly.

Assistant to Mr. Edison.

A/6554.

#### SOUTHERN CALIFORNIA SHIPBUILDING CORPORATION

IIPYARD AND MARINE RE WILHINGTON, CAL

TEL PERONE MAIN 72

Thos. A. Edison Orange D.J.

Keeselghus beet hours not got Ded You might sent My dear i'r. Edison: -

You will probably remember the writer hereof as the gentleman neeting you at your old spreinential station at De Kath are and lays the spondern sum Margarite and Security to Spread to Spread to Spread to Spread to Spread to Spread to State the State of St

I am interested now in a wonderful deposit of kiesel-guhr here in California and belief that for the of assis-tance in the marketing of the product.

The matter of quantity and per centage is right and our tests will show minimum of 95% with three millions tone opened up.

Will you do me the favor to advise the possibilities available there for the product - enclosing a small sample of the stuff for your analysis.

Very truly yours

Oll J. Butter.

P. S. Will her combine have from 508 6 150 per ton 13.

Вс

April 21,1919.

Mr. M. J. Butler, c/c Southern California Shipbuilding Corpn., Los Angoles, Cal.

Dear Sir; -

Your letter of April 12th has been received together with the sample of Kieselguhr.

While I thank you for calling my attention to this matter, let me say that I have repeatedly tried to me Kieselguhr, but have not yet succeeded in doing so to my satisfaction.

Let me suggest that you might send a sample to the Johns-Kanville Co., asbostos manufacturers, who are located at Madison Avenue and 41st Streot, New York.

Yours very truly,

A/6973.

THE ENGINEERS' CLUB 32 WEST 40TH STREET NEW YORK

April 26th,1919

Irenaule you well,

Thomas A. Edison, Esq., or a que alar one new judgment or one new judgment of the control of the

Dear it. Balson: from the peaker Miching

Perhaps your remains its all a volume to the second of the desire where expert employed by out impropor of the desire where the second of the desire was not to the second of the second

Recalling those days, I am impelled

to send you an advance copy of my paper on "Potash Plants and Mineral Manure" with my highest esteem.

Yours very truly,

But like mod other llumps the mornfor well never get a d-d Cent for all his trouble

April 29,1919.

Er. Woolsey McA. Johnson The Engineers Club. 32 West 40th Street. New York, N.Y.

Dear Mr. Johnson:

Your letter of April 26th with the accompanying paper has been received.

that time, and a greater one now, indignations the paper. Mothing that I now know from you wall to the paper. Mothing that I now know from the value to the U.S.A. than feldaper whome content of potash can be gotten into a stage where the plant can gat it.

It is worth countless millions to the U.S.A. but, as in most other things, the inventor will never get a d--d cent for all his trouble.

Yours very truly,

A/7058.

May 1,1919.

Mr. W. S. Androws. c/o General Electric Co.. Schenectady, P.Y.

My dear Mr. Andrews:

I have an impression that you have been interested in selentum in a general sert of way, and for all I know, you may have done a good deal of work on it.

In any may, I am taking the liberty of asking you whether you can refer me to any seed recent librature on this subject. For anything I know, there may be some zood mock that has been recently written, and that is not all methematics, or there may have been some pupers read at one or more of the tochnical societies. The last paper that I have on the subject is the one rend by Hummer before the American Electrochemical Society in 1995,

Can you holp me to get something more up to date?

With kind regards, I remain, Sincerely yours,

Assistant to Mr. Edison.

May 1,1919.

Major Wm. J. Hammer, General Staff, War College, Washington, D.C.

My dear Major:

Selenium, but an interested on the subject of paper road before the American Electricotherical Society in 1903, is the best information I have so for but possibly you may know of some literature or papers read that brings the subject up to a nore recent date.

Can you help me out with some information on this point?

With kindost regards, I remain,

Yours sincerely, and Yours for the victory soun,

Assistant to Mr. Edison.

A/7065.

THE ENGINEERS' CLUB 32 WEST 40TH STREET NEW YORK

Hay lst, 1919.

Mr. Thomas A. Edison. oustained a pectenter made Orange, H. J.

Dear Er. Edison:-

to note that you remain the state of high and wear handy to note that you remains not some some time or other I would like to talk to you about my party woman your form. A gafarring toyour last paragraph, in which you state that the limetter will never not a d-d court for

all his trouble, I am just thinking that public report that you have gotten a little for yours, although, of course, not a professely small good when we concider the value of your services by the concider the contract of t

But I know perfectly well, and if a knn of il even lay down the law to a man of 71 and famour, I know that the intellectual and spiritual nationation that you know received has note you know the spiritual strikenish of the type know more working primarily for none, Chinough your secondary or restrictly thoughts on that are better and keeper than the various thoughts of the 1211 Strate come. primary thoughts of the Jall Street gang.

I, some time ago, turned over to the American Smelting 3 Refining Co., a process for smelting complex sinc ores out of which I will get quite a bunch of cash, plus all sorts of contingent profits.

You will understand possibly that I am having a kind of heart-to-heart talk with you, or rather with your personality as I conceive it.

Every time I walk along Fifth Avenue and see the beautiful design of your phonograph store and the most esthetic interior decorations, I think of the kindly advice and winning personality of yourself.

Thanking you for your letter, and with esteem,

I remain, Yery sincerely yours, W. Mc A.

GENERAL ELECTRIC COMPANY GENERAL OFFICE SCHÉNECTADY, N. Y.

In Reply Refer to

May 5th,1919.

Mr. Wm. H. Meadowcroft, The Edison Laboratory, Orange, N.J. My dear Mr. Meadowcroft:- Throughour say From not gon to use in Countedion with

In reply to your inquity of let inst., I have given some study to the making of light sensitive selenium cells but. have not gained much information from articles dritten on these devices, instructions given being generally inchaptete and often contradictory. I have not found these cells very easy to construct, but have made several that average about 2000 ohms resistance in sunlight and run up to 10,000 or 15,000 ohms in darkness. If you are interested in this matter I will send you some sketches showing how I make them up, and how they are treated to bring out the light sensitive property.

Following are some references to literature on the sub-

ject:

The Electrical Experimenter, Sept. 1917, p. 356. Article entitled "Selenium Cell Design and Construction" by Thos. W. Benson.

Physical Review, Jan. 1915. Article entitled "Selenium Cell", by D.S.Elliott.

Electrical Experimenter, Apr. 1918, p. 870. Article entitled "The Chemistry of Selenium" by Albert W. Wilsdon.

Photo-Chemistry by Dr.S.E. Sheppard, page 234.

Phys. Zeit. 1908 - p. 789, article by Korn.

Phys. Zeit. 1904 - p. 121, article by G. Bernett.

Eder's Jahrbuck d. Phot. 1898, p. 374 article by Shelford Bidwell.

Phys. Zeit, 1906 p. 163 article by Heschias.

Chem. Phys. 1908 - pp. 4, 35, 92. Article by Anthanadiadis.

Introduction to the Rarer Elements by Dr. P.E. Browing p. 146

Elec. Worls, Vol. 69, No. 17, April 28, 1917. p. 800 Article entitled "Sensitive Selenium Cell."

Elec. World, Vo. 72, No. 18. Nov. 3, 1918. p. 847. Article abstracted from Physical Review, Oct. 1918, entitled "Effect of Gases and Metallic Vapors on Selenium of the Hexagonal System" by W.E.Tesdale.

Mineral Foote Notes, Vol. 2, No. 4, April 1918, p. 30 Article entitled Selenium Cells, by Mc Martinez.

Modern Inorganic Chemistry by Dr. J.W.Mellor, pp. 460-461.

I shall be glad to correspond further with you on this subject if desired.

With kind personal regards,

Yours very sincerely,

WSA:A

CONSULTING ENGINEERING DEPARTMENT.

May 6,1919.

Mr. Woolsey McA. Johnson, The Engineers Club, 32 West 40th Street, New York, N.Y.

Dear Mr. Johnson:

I have received your letter of May let and am glad to learn that you are going to get something one one of your inventions.

It may surprise you to learn that I never sustained a patent, and that all I have I have made from manufacturing.

Yours very truly,

A/7102.

Hammer M Whitelief May 8-1919. Duy dear headower oft Replying to your recent enging regarding Delemm I mich to state that I do not - turn of any recentarticle along the luis ofmi paper 7 on reger Co. Thave quie many lecture tilles & demonstrations addition to the ones you refer to, but surportunately mise ledure flach mie not- puiled. Shire a large amount of. material upon the publicatstock mile my impedimente ni nengon, but-it- is notat- present available, but3 Som sure that you well be interested to learn the-Duane been nothing for many years upon a Bibliography of Delemin +D have specil- an unneuse amount of time throney on it tit to my hope that before Rong dear publice his as it-mee Iam oure from of hole mile whilet + wifm. Cause + if I carry out my plans in he miller him nice more hit molds on. Montalin publication on he suffect, Thopse I can America haro morte en eorg. Let-me lum mot it - c6 you nout - to hum I mad you something appendicularly or have softened to use he dade for military appendicularly or have suffered to the softened to the s

May 1),1919.

Mr. W. S. Andrews, c/o General Electric Co., Schenectady, H.Y.

My dear Mr. Andrews:

I find that in writing to you the other day about selenium I lod you to infar that it was a personal interestating prompted me to write. The letter was distated in some heats, and I conveyed the wrong impression.

The information was for Mr. Edison, who has some project in mind involving the use of selentium. I gave him your letter of May the and he wents me to extend his thanks to you for your kindness in furnishing the information therein contained. He also wishes me to say that, he is not provided the selection of the contained the selection of the contained the work helpful, and

Yours sincerely,

Assistant to Mr. Edison.

A /7140

Mil Konas CEdism Orange hig Den In I am sending you water Harte Coula lample of Parhotit Hun Rand to Contam hearles listituant is high enough & leave your determination of

Address
THE ENGINEERS CLUB
32 WEST 40TH STREET
NEW YORK

Hartford, Conn., May 15, 1919.

Mr. T. A. Edison, Say you to so and the distribution of the control of the contro

I have been thinking observing over percently and I make bold to say put I would be well glad to discuse with you the general subject of becoming associated with me as technical activer in the proposed Potash Fatents Corporation. It would be absolutely impossible for me to talk to you about this until semetime in June for two reasons: The first of all is that I will have to prepare myself to talk to a man like yourself on the proposition; the second is that I am as busy as the devil (but I hope for a much better purpose).

Would be pleased to hear your views about

this proposition with the idea that I might call upon you sometime in the first part of June.

With regard and esteem,

Yours very truly,

WMcAJ/H

May 26,1919.

Mr. C. P. Johnson, Millwood, Wash.

Dear Sir:-

Your letter of May 13th and samples came to hand. Mr. Misen wishes us to state that the samples are Mispickel, a compound of arsenic and iron, and neither of the samples contain a trace of nickel or of any other valuable substance.

Yours very truly, Edison Laboratory.

A/7231.

# [ATTACHMENT/ENCLOSURE]

Day sample is
Mapickel. Compand ausenis & hon
Confound Wisenis & hom
a does not contain a
was of Kakelor
other Valueble substant
7 (7231)



AL COSES

PORTERS AND EXPORTERS

RUSUAL ORES, RESIDUES

METALS AND ALLOYS

MANUFACTURERS OF

"PONINGO" GOALITY

"PONINGO"

"PONI

# FOOTE MINERAL COMPANY

INCORPORATED

ESTABLISHED OVER FORTY YEARS

IO7 N.19TH STREET, PHILADELPHIA

PLANT AND WAREHOUSE RICHMOND AND TIOGA STS. PENNA. R. R. SIDING TIOGA STREET STATION SALES DEPARTMENT

Er. Ludwig Ott, Thomas A. Edison Leberatory. Vallay Road, West Orange, M. J.

Mun Edward 1939

Man Edward Plane underline
Read and

"Mineral Poote-Motes" Donr Sir:

Our returned postal dated May 27th has just been received, and we regret to note that you have failed to underline the products in which you are interested. Accordingly we are returning the card herewith, and if you wish to receive our magazine free, it will be necessary for you to underline the products which you require from time to time in your work.

Awaiting your raply, we are

Yours very truly,

FOOTS HINEBAL COMPANY,

. пом/ран

Enclosure: Postcard

Lithia Univalo Chalk Chuna Clay Soda ithum — Sulphath of Alumina

### [ATTACHMENT/ENCLOSURE]

PAINERAL FOOTENOTEN' is adultate Aboutthy. It has been the common of the

LABORATORY AND OFFICES

HENRY C. DEMMING

Nos. 15 and 17 North Third St., Harrishurg, Pa., U. S. A.

Cable Address:—"Marion."

Contenues of the Contenues of Petrolyman Intelligent Contenues of the Cont

Harrisburg, Pa., August 13, 1919.

Hon. Thomas A. Edison,

Orange, N. J.

My dear Friend:

It pleases me much to learn that you have at last qualified as an expert fireman, having participated in the extinguishment of not less than three fires.

By the way, I think, since you are seventy-two years of age, you are cutting up quite a number of boys' pranks. For instance, helding out your hand parallel to the floor, and kicking it with either foot, etc., etc.

The writer is four years your senior, but notwithstanding he challenges you to a Warathon race of five miles; \$100.00 a side, the winner to hand the \$200.00 to your good wife, for the beneift of that great Church to which she belones.

I will await patiently your enswer, --or until I return from the interior of Mexico, to which Republic I am bound this evening on important business as a Mining Engineer and Geologist.

With best wishes, I remain

Faithfully yours,

Kenry & Bemming.

Jr. \

Sept. 16,1919.

Mr. August Hecksher, 50 East 42d Street, New York, N.Y.

Dear Mr. Heckshor:

As you are the only men whom I knew connected with the New Jersey Zino Co. I want to say that in my experiments for the U. S. Government during the war. I found a new use for zino, and as I see you are desirous of bringing out all its uses. I suggest you send one of your men over to my Laboratory. Since the war is over, the Government have no interest in the subject.

Yours very truly.

## [ATTACHMENT/ENCLOSURE]

As you are the any man whom I know as consected with the Wy Zinc Ca, 9 want to say that in me Experimently for US God during the war & found a new de for Zinc, of an I see you are deverien the ever is expose head and interes

# · · ·



## The New Jeiser Zing Company

INDIANE MORN CO

VICE PRESIDENT

NEW YORDS

September 17, 1919.

Thomas A. Edison, Esq., Day Come and Orange, N. J.

Dear Sir:

Mr. August Heckscher has handed me your

letter of September 16th, suggesting that we send one of our men to your laboratory in connection with a discovery of yours for new uses of zinc.

We are very much interested in this, naturally, and would like to send one of our engineers over to you when it will be entirely convenient for you. To this end will you not be good enough to advise me when the presence of one of our men at your laboratory would involventence you the least?

Thanking you for your extreme courtesy in bringing this matter to our attention, I am,

Very truly yours,

J.E.Hayes:S

Vice President.

7854<sup>~</sup>



P. O. ADDRESS STATION D

FREDERICK ROAD STATION

Sept. 20, 1919 BALTIMORE, MD.

Thomas A. Edison Laboratories, Orange, N. J.

Gentlemen: -

You wrote us on July 15th in regard to sample of "clay" submitted stating that it would be some time before you would be able to make a definite report.

We hope that in the meantime, you have had a chance to work up these goods, and will now be in position to advise if this matter is of interest to you.

We hope that we may have the pleasure of your order.

Very truly yours,

WHT /HF

VICTOR G.

October 2, 1919

Mr. W. H. Thomas, Victor G. Bloede Co., Baltimore, waryland.

Dear Sir:-

Your letter of September 30 has been received. Hr. Edison desires me to say he received a large number of samples of clay from various points, and his investigation regarding the various clays are not yet finished.

He is therefore unable to decide about placing orders at this time.

Yours very truly, Edison Laboratory.

LABORATORY AND OFFICES

HENRY C. DEMMING Nos. 15 and 17 North Third St., Harrisdurg, Pa., U. S. A. Cable Address:--"Marion."

Harrisburg, Pa., October 3, 191

Hon. Thomas A. Edison.

Orange, N. J. Friend Edison:

ask him of heknows o blace in Penna

The trip to Mexico as Mining Engineer and Geologist as most successful While absent I found the following minerals. securing some of them, while they are being

Barite, Cassiterite, (tin ore,) Chalcite bar, (quicksilver ore,) Copper, (varieties: Azurite, Bornite, Chalcogite, Chalcopyrite, Malachite, and Native,) Feldspar, (Soda,) Gold, Gypsum, (plasterof Paris,) Iron ore, (varieties: Hematitie, Metallic and Specular, / Jasper, (Green, Red and Yellowish Brown,) Kaclinite, Limestone, Lydian Stone, Manganese Ore, (variety: Hausmannite,) Meerschaum, Mica, (Muscovite,) Nickel, Obsidian, (black,) Ocher, (varities: Red, Pink and Yellow,) Opal, Petroleum, Platinum, Silver, (five varities) Argentite, (silver and sulphur,) Cerargyrite, (chlorine and sulphur,) Native, Proustite, (Sulphur, Arsenic and Silver,) and Stromeyerite, (Copper, Sulphur and Silver,) Sphalerite, (Zinc ore,) Talo, and Umber, (Turkish.)

By the way you have not accepted my challenge to a Marathon race of five miles. I think Mrs. Edison needs the money for the Church to which she is attached. Now put up, or hand Mrs. Edison \$100.00 forthwith, as admission of defeat.

Awaiting an early reply, I remain

Ed. Henry Demn.

Optober 6, 1919.

Col. Henry C. Demning, 15-17 N. 3rd Street, Harrisburg, Pennsylvania.

Dear Sir:-

Hr. Edison received your letter of October

3, and was much interested in reading the results of your trip to vexico.

He is very busy on some particular experiment

today and has asked me to write and inquire whether you know of any place in Pennsylvania where Lithia Mineral has been found.

He says that he has backed down on the marginum as he believes you could bent him.

Yours very truly,

Asst. to Mr. Edison

of balance GIBLIN & COMPANY, HIGH GRADE HEATING APPARATUS WARM AIR FURNACES.

COMBINATION HEATERS STEAM AND HOT WATER BOILERS.

701 BROAD STREET UTICA. N.Y.0ct. 9, 1919.

order A. Edi Orange, M.J.

One of the things, long sought for by Foundryis some material with which to make a permanent mold for Gray Iron Castinas.

Molders are getting scarce and few are learning the trade. Those that are skilled in it have become so important that they are really the employers instead of the employees.

It has occurred to me that your experiments with the different forms of metal and other elements might suggest to you something that would withstand the action of the heat and enable permanent molds to be made FOR Gray Iron.

You know undoubtedly that in casting lead and other soft metals, there is very little trouble in the use of permanent molds. Nothing, however, has ever been invented that can be used as permanent molds for Gray Iron.

I write to you to suggest it, as a worthy subject of investigation and I hope that you will consider it.

The discovery of some metal or material that could be used as a permanent mold would be a World Wide benefit and would work quite a revolution in the Foundry Industry.

I assume that you are familiar with the action of is assume that you are ramiliar with the action of Gray Iron and will not need any incornation on it but if there is northing you lack, I will gladly supply it so far as I can and will refer you to skilled experts in the foundry business for information I lack.

Will you kindly consider the matter and let me hear from you, and oblice

Some few years ago I was Chairman of the New York State Committee of Credit Men. While in this position I met a man who was in your employ and in personal touch with you, I believe in your office. I cannot now recall his name be but recall talking with him about you and your inventions at a meeting I attended in Buffalo of the Credit men about two or If he is now with you I would be glad to three years ago. have you refer to him.

Yours very truly,

FTG/1001

LABORATORY AND OFFICES

.HENRY C. DEMMING

Nos. 15 and 17 North Third St., Hassissups, Pa., U. S. A.

"Cable Address:—"Marion."

Pollow Contention of Petrolythian Contention Contention of Petrolythian Contention Contention

Hon. Thomas A. Edison.

Orange, N. J.

Main beauther do not

Day the Lithia localities do not have commercial prantity The grant was in a pegmetite vin, but percentage

Friend Edison:

Replying to letter of the 6th, by your assistant. Mr. William H. 1068acortropic of the construction and the construction of the construction of

8008

Mineral containing over 15 Lithium of a prochably these mineral from as Spodurane boours in the granity Contain, Mags.; also Theory Mineral known as Spodurane boours in the granity Contain, Mags.; also Theory Mineral Miner

Also near Stony Point, Alexander county, North Carolina, the variety there known as Hiddenite. Spodunder contains from 15% to 75 Lithium oxide, (Ligo). I have several ounces of the North Carolina Hiddenite in my possession, of a semi-gem nature.

At Branchville, Fairfield county, Connecticut, there is a vein of Albitic granite, in which Spodumene occurs, and also Lithiophilite. An analysis of this mineral shows about 9% Lithium oxide. I think Branchville is the mearest locality for a satisfactory Lithia containing mineral.

A number of years ago I found some beautiful pieces of Lepidolite mear Bryson City, Swain county, Horth Carolina, containing about 5% Lithium oxide.

The aforementioned are all the deposits that I now recall, and within territory not too far away from your laboratory.

What did you do with the foliated Graphite that I examined for you and Mr. Mallory in Sussex county, Hew Jersey, a number of years ago? I think I oan dispose of that property for you, if in the market. If my memory serves me rightly, this deposit was quite large, and two or three miles northeast-wardly from "Edison," where you experimented on the magnetic separation of iron ore.

I am sorry that you have withdrawn from the Marathon race. It is about the only thing that you have turned down since I first made your acquaintance forty-five years ago.

With best wishes, I remain

Faithfully yours,

Eac. Henry Demming.

October 13, 1919

Col. Henry C. Demming, 15 and 17 N. Third St., Harrisburg, Pa.

Priend Demming: ..

Thanks for your letter of October 9.

The Lithin Hoonlities mentioned by you do not have commorcial quantity.

but the percentage was son be for commercial moving. There is a miss one so to be for commercial moving. There is a miss of morphous graphite on a properly marmise, mer Ennderbess Mountain, at Ions Island in the Rudson River. It is from 3 to 5 feet wide and crosses a public model. I do not know who owns it.

Yours very truly,

Ediphoned

November 3, 1919.

Dr. George F.Kunz,

Fifth /venue and 37th Street, N.Y. Ly dear Dr. Zunz:

One you tell me approximately how range oursets of Sort are found per 1000 carets of gem dismonds in the south African mines?

What information can you give me about the Guins mines in South America, Including the menes of the Company or Companies operating them, cost of production, 20, ?

Do you know whether emything further is being done out Sest in the Ozerk nountein region:
Sincoroly yours,

# [ATTACHMENT/ENCLOSURE]

Can you tell me referexundaly how many Courts of Bout so found Jan 1000 Carato of I four drawould at South adfrice - also what me about the Gunn were us 5 removed The names of Co of Cor ( periling perduction ele -also of anighting of wither in

in Ogenk let were



48NY NX 320P 58 FD Deaborn Mich Nov 5 Em Meadowcroft,

5 Thos A Edison



Your letter October thirty first reed yesterday if absolutely needed can spare up to one hundred carats at about thirty dollars per can probably furnish two or three hundred carats crushing bartz market price diamonds and bortz are both plentiful on market and will submit announcements to you if necessary please advise immediately if we can serve you.

E.G.Libold.

Just sought lot Boot what prince con you buy or what you be with the control of in the way

Sand by Portal

Diamondo

405 Fifth Avenue. New York City, November 5, 1919.

Thomas A. Edison, Esc.. Orange, New Jersey.

Dear Mr. Edison:

From 20 to 40 carats of bort are found with every carat of diamond in the youth African mines.

In regard to the Guiana mines, the diamonds are very small and the majority of them are fit for cutting purposes, or else for cutting points in glass cutting, etc. Some years ago, I spoke to you about using these very minute Guiana dismonds. Sometimes there are a hundred or more to a carst. They have natural curved faces, were very reasonable and, if still obtainable should be good material for phonograph ping. I am sure that any purchaser would be happy to pay a dollar more for an unfractured bit of material, and the cost would be only a fraction of a dollar. At the time I spoke to you, there were great quantities of them.

The Pike County, Arkonsas, diamond mines will be operated in the very near future and I will mention to them that you are interested in any bort and small irregular material.

Very sincerely yours, Henry Hung

Jelegrain

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10. H. Meaterwoods.

Market price about 25.75

a const for crusting best in

large growthis - 2.10 lies in

smaller bots. Tall province.

feather guehabenen

E. G. whoold

Dykener

See what you can bour

Crushing bant for

q-betme see samples

November 7,1919.

Dr. George F. Kunz, 406 Fifth Avenue, New York, N.Y.

Dear Dr. Kunz:

Many thanks to you for your letter of Hovember 5th, which gave me just the information I wanted.

Do you think you could get me a sample of the small Guians diamonds you mention? Or, perhaps you could tell me whom to approach on the subject.

I shall be much obliged to you for celling the attention of the operators of the Pike County, Arkansas, mines to my interest in any bort.

Sincerely yours.

F.VERNON ALER CORPORATION LAW EXCLUSIVELY MARTINSBURG, WEST VIRGINIA a

November 10, 1919.

Mr. Thomas A. Edison, Rast Orange, N. J.

Dear Sir: --

Some years ago you assisted me in securing an analysis of a shalle deposit I owned near this city, and which proved to be exceptionally fine. Since that time I have succeeded in promoting two large modern brick plants for the manufacture of vertous clay products. Lately various building materials made from cement.

For some months I have been experimenting with the shale product with cement as a combination. I have secoeded in reducing the shale to a state whereby it can be mixed with cement, sand eliminated, and will produce the most beautiful brick, block and other products. I am preparing to secure several patents on equipment and formula process.

Can I interest you to the extent of aiding me overcome the mixing of coloring whereby various colors can be effected? By my process I am assured of a cherry red color and the comment effect I am quite sure the various colors can be made permanent, but I am a little behind in this. Knowmade permanent, but I am a little behind in this. Knowmade permanent, but I am a little behind in an accordance of the permanent behave any object of the lang sumb matters, I am anxious to have any suggestions or help from you that you may ears to offer.

Very truly yours,

Flernon alex

That are a number of Mells in Penna Who mine grimo well other colors of various white of Red- a state Bureaus Derectory about give you their address. The others are vien their according to the others are vien their according to

DIAMOND SAW TEETH DIAMOND TOOLS

s. Rose,

Diamonds, Cardon and Boriz FOR MECHANICAL AND SCIENTIFIC PURPOSES.

21 & 23 Maiden Lane.

New York. Nov. 12. 19.





The Edison Laboratories, Orange, N. J. Gentlemen;

Mr. George Kunz of Mess. Tiffany & Co., has asked us to write you in regard to some Points that you are looking for, not knowing just what kind of Bort you want he asked us to writr to you, and see just Hoping to hear from you. what you wanted.

P. S. We have too lots of Points out, that would probably hold somthing for you, will hear from them within a day or two, but Mr. Kunz mentioned you would like some large stone that you could break up, well we have quite a few in stock and will be glad to show them to you.

Jecegran

Nov 13, 1919.

E. G. Liebeld "Ye Honey For I Dearborn , Mich .

Will you please ask larde Carton Co. for quotation on ten throwand canals crusting beat but do not members our name.

W. H. Mendownoft

Sent gentler While

Meadocraft

Jelephous Victors

to cuk Consuscion qualitims
on towarten lhours
Coverto Cruching Bont,

Diam mids

November 18,1919.

Dr. George F. Kunz, o/o Tiffany & Co., Fifth Avo. and 37th Street, New York, N.Y.

My dear Kunz:

In looking over your Gem Book the other day to find the weight of a afrat I found that the book stated the weight of one carat as 205 grammes, instead of Milligrammes.

Is it true that the weight of a carat has been changed from 205 to 200 Milligrammen?

Sincerely, .

## [ATTACHMENT/ENCLOSURE]

Dry TKing - Juffan Jobs
Dr. I Kung - Jeffang Joba am am 37 d fr My Dran Kunz """
In looking over your Tem Book the offer day to find the weight of a Caret I found
Weight of a Carest 9 found
Weight of one Carata 205 grams, instead of Milymun
a Court has been changed from 205 to 200 Williams?
Colpen
<u> </u>

Thank Kung or day I saw some let they are two Explessor for my I man brave got all the botto needed

405 Pirth Avente, New York City, November 10, 1919.

Thomas A. Edison, Esq., Orange, 'New Jersey.

Dear Mr. Edison:

I hope you will not think I have been neglecting your letter of recent date, but the fact is that I have made a considerable search to get the material you manted.

I have referred S. Rose, 22 Maidon Lame, and J. Pink & Bon, 67 Macsau Street, to you, Who latter firm deals in Guiana diamonds, and it is possible that thoy may be able to got the crall material I spoke to you about. The people who had the material before no longer have any of it.

Sincerely yours,

(8239)

Jevge Muns

Jr. George F. Kung

Diamond

405 Fifth Avenue, Year York City, Hovember 20, 1919.

Thomas A. Edison, Esq., Llevellyn Fark, Orange, How Jersey.

Dear Er. Edison:

Your favor is at hand.

Yes. the new carat was brought about, through the instrumentality, largely, of your humble servant, on July 1st, 1913. on which date it was officially adopted by the Government.

The old carst was 205 mm. The present carst is 200 mm. five to a gram, five thousand to a kile - a weight understood, comprehended and used almost throughout the entire world, replacing some 24 different carats in various parts of the world ranging from 108 mm. or 1.88 grams to 263 1755.

I have inquired about American bort for you, but my party will not return for a couple of weeks.

I hope some day to have the pleasure of your presence at Central Park for a few moments, to plant a tree to go down to posterity.

Hoping that this finds you in the best of health, I remain.

Sincorely yours, Hunger King

J. N. Bachman, See's M. L. Bachman, Trees.

Pennsylvania Blackboard Co., Inc. Manufacturers of

Blackboards and State Products

December-19-1919

Statington, Pa.

Office and Mill Factors St. Lehigh 'Phone 113-3

> Mr. Thomas Edison c/o Mr. Wm. H. Meadowcroft Orange, N.J.

Dear Sir:-

and the land

Replying to your inquiry of the 15th we are pleased to quote you 30 cents each for slate pieces 12" equate 3.5 K inch thick, boxed f.c.b. slatington, Pa. We are not prepared to make of collar slate. We could ship within two weeks from receipt of order.

Thanking you for the inquiry and hoping for your order of same, we remain,

truly yours,

Penna. Blackboard Co.

t Concern we Oheat Mickel from -Lend cost The Thickest they have In sheet or Strate. The kind I want will be strate 24 weles wide - Can use 14" Driver, Harris +6: are the manufacturers say 1/8" is the thickest they can supply take q weeks to get it - They could make it 1/4" thick but would take 13 weeks + be very

#### Edison General File Series 1919. Mining -- Ore Milling (E-19-49)

This folder contains correspondence and other documents relating to the technical and commercial development of Edison's technologies for ore separation and concentration, as well as to other ore concentration processes. Among the items for 1919 is a letter about a purported business venture in Wyoming involving Edison and Buffalo Bill Cody. Also included is correspondence with William O. Manson about the possibility of building an electric plant to refine platinum ore. In addition, there are inquiries about the defunct Edison Ore Milling Co., Ltd., and Edison's crushing roll and magnetic ore separation technologies. The correspondents include the Marble Cliff Quarries Co. of Columbus, Ohio, and the National Tin Corp. of Hill City, South Dakota.

All of the documents have been selected.

24 St Francis Pl Brondy the Co want out Sea In Jues a milling, et our will

January 8,1919.

Mrs. John Brant. 24 St. Francis Place. Brooklyn, F.Y.

Dear Madam:

In reply to your letter of January 3d, Mr. Edison wishos us to say that the Edison Ore Hilling Company went out of existence many years ago, and, therefore, the stock has no volue.

Yours vory truly,

Edison Laboratory.

A/6274.

PORATED UNDER THE LAWS OF THE STATE OF NEW YORK, 190

EXINGTON AVENUE AND 420 STREET STANDARD FINANCE COMPANY

TELEPHONE 2847

Mr Thomas A Edison, East Orange, H J.

Dear Sire

o looks feesby

of thick of remember (his

of thick of remember (his

of William F Cody (Burralo Bill)

Some years ago William F Cody (Burfalo Bill)

Claimed he had spent about \$50,000 with you in an effort to
create for him some kind of a mechanical plant that would
handle some rich placer gold property in Wyoning, which was
far removed from water.

Till you be good snough to advise me where that property was located; My information is that it was located in Shoakons Valley, Wyoning. This information came to me through a friend of Cody's by the name of Frank H Hoen, of Baltimore, a lithographer, who did a lot of work for Cody in the show huminess.

I enclose you stamped envelope. Do you recall what values the property was supposed to have, as I understand it was a placer gold property where they had no water. These coourrences are about 20 years old.

I would greatly appreciate any information you can give me on this.

Yours truly,

A Chrongagh

Sug A Ore melin

THE MARBLE CLIFF QUARRIES COMPANY

QUARRIES MARBLE CLIFF, OHIO

COLUMBUS, OHIO.

SOT HARTMAN BLDG.

Day, as our patents have expured used not make the rolls any more your Engunes will go to the plants of the plants of the plant of the felly Island dimesters to they 17, 1919, which use the traff at 2 places I in Ohis I in my state he can see the affection, the Capocally is fair sources, the more what is the affection, the Capocally is fair sources, the seems what I trained dumping on each side of the continuous continuous. On the continuous what is the continuous the trained in the seems which are

At the present time the stone in our old quarry workings, which are located adjacent to two crushing plants, is about exhausted, and we are just beginning to open up new quarry ledges in a different location where we have a haul of one and one-half miles to either of the crushing and exceeding plants, saking a three mile haul for the round trip.

Due to these changed conditions, and to other natural somitions of our stone, we are considering the installation of Edison-foills adjacent to the new ladges. We are enclosing a sketch showing roughly the installation which we have in unind. If we should make such as installation, we would prefer to send the entire production through yie large crushes which would be possible to send the stallation through the large crushes which would be possible to segment be stone into segments bins, one being the flux stone and one the ballast stone, so that there would be no danger of a part of the ballast stone stilling over into the flux bin. Unless we can install some mechanical device to shoot the stone coming from the preliminary bearies into the seprétate bins, without danger of the ballast installation as our customers on flux stone would soon get away should this coour.

7232

With such an arrangement we would have trains coming from both the ballast and flux ledges at the same time, and they would dump alternately into the preliminary opinion. With a large or unbest of this kind we believe that the stone would go through very quickly, and that there would be a space in the slewshor where there would be no stone, this cocurring inhetween the time the one train dumped its last one, and the second train spotted the first four to tamp into the last one, and the second train spotted the first four the state of the second train spotted to the first of atoms, we believe, but are not cartain, that some mechanical device could be installed at the head of the electron which could be infled at the time the empty space in the elevator which could be infled at the time the empty space in the elevator which could be infled at the time the empty space in the elevator which could be infled at the time the empty space in the elevator yearshed the top, so that the stone could be spouted into either bin without

Install the Rolls iften arong the offeration of think to sould find our patterns + outside concern Could have the

#### THE MARBLE CLIFF QUARRIES COMPANY

PRODUCERS OF CRUSHED LIMESTONE

QUARRIES: MARBLE CLIFF, OHIO

OFFICES

COLUMBUS, OHIO.

May 17, 1919.

\_

Thomas A. Edison, Inc.,

damper of mining the ballant with the flux. This would messentiate an operator in the room at the head of the elevator marked "". The stone having been sent through this preliminary ormshing plant, would be handed over the one and one-heaf mile head to either the flux plant or the ballant plant in 60 ten hopper cars for final crushing and screening. Each of these plants are equitped with \$21 gyratory ormshore. The stone would be fed out of the hopper cars into the \$21 gyratory as fast as they would take care of it.

We would like the following information in regard to your equipment;

- (1) The weight of the Edison rolls
- (2) The capacity per hour on stone which shoots up in
- large blocks, and which weighs about 155# per cubic foot.

  (3) The approximate price, at the present time, f.o.b. cars
  Marble Cliff, 0.
- (4) The size of the motor required to drive the crusher.
- (5) Blue prints showing dimensions so that we can determine
- the depth and size of the crusher pit necessary.
- (6) A rough drawing drawn to dimensions showing the installation, including the Edison rolls, elevator and bins which you would renomend.
- (7) Advice as to the mechanical device which we could rely on to separate the flux and ballast stone.

Kindly let us hear from you at the earliest possible date, and oblige,

Yours very truly,

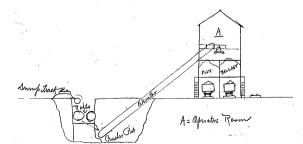
THE MARBLE CLIFF QUARRIES CO.

Muyman.

HJK

С

### [ATTACHMENT/ENCLOSURE]



May 26,1919.

The Marble Cliff Quarries Co.,

Columbus, Ohio.

Gentlemen: Atten: H. J. Kaufman, Asst.Gen'l Manager:

Your letter of May 17th has been received.

Insemuch as our petents Score excired, we do not now
make the ginnt rolls. The Relly letted Missettone Co.
use these rolls at two places, one in Ohio and one in
New fork State. If your Empiness will go to one of
both of these plants he will be able to see the roll
in operation. The operating of the rolls is all beyond
the quantity which two trains dumping on each side could
furnish to them.

Should you desire to install the rells after seeing them in operation I think we could find our patterns and an outside concern could built them.

Yours very truly,

Orc Milling

### Mational Tin Corporation CAPITAL \$1,000,000,00

NEW YORK OFFICE 61 Broadway BUBLING GREEK SITE Room 716

PRODUCTS

TIN, TUNGSTEN, MICA, GRAPHITE, & SAF

MINES, MILL AND SMELTER HILL CITY, SO. DAK.

HILL CITY S. D Sept 24th 1919

T.A.Edison Esq.

Dear Sir/-

Orange M.J.

Would you mind letting maken if you build a magnetic seperator, of about five tons capacity in eight hours, and also if the same can be used with a 2%0 volt alternating ourrent does

i want to seperate wolframite from tin (casizerite), and are at the (averse Myro and althow there several on the market, they do not seem to be as high class as the one you had up at ogden, and also their price is to high for their capacity. The Bodds want \$7,000,00 for their fire ton machine.

I am willing to pay \$2.000.00 for a good one, but 1 do not want to pay wolds price for a contact machine.

if you dont mind, let me know about this right away, as I have to have one this month.

iours Kesp.

September 30, 1919

Mr. Alexander Roys, Gen. Mgr. Hational Tin Corporation, Hill City, South Dakota.

Doar Sir:-

I have received your letter of suptember 24. It is such a long time since I had any active association with the Megnetic Separator business, that I am rusty and do not know much about present types of machines. I am not in a position to build you one, as it would be entirely out of my recent line.

I would suggest that you write to the Engineering and Mining Journal, New York, and say you are in the market for a Enguetic Separator, and would like the addresses of the warious manufacturers.

Yours very truly,

25.

Racky Mountain Club of New York Oct-7 1919 Arthur a, Edin Lakesde are mod-lang no Hydra Hr Edin any 120 g Action group. (Consults) assemble with left supplier, or goed o' when (ale 1) Can need y schen - Where you Fr.o Manson not whorested

2n

October 9, 1919.

Mr. W. O. Manson, Rocky Mountain Club of New York, \$65 West 44th St., New York City.

Dear Sir:

Your letter of October 7 to Mr. Edison was

received and given to him in person.

He wishes me to say that he would not be interested in joining you in the development of the property referred to in your letter.

Yours very truly.

Assistant to Mr. Edison.

Ediphoned: 24

[8032] Rocky Mountain Club of New York The Ir.H. Meadmont Crange If. نىد سەدى Jun 92 rid The platein min is developed I mide to a sight, are 15th to Coasted a method to Frut it , as Electure furnace was best-way - Who Elisa Creek use the Platemen This are assuide Carried in Coffee Supplies about 1/2 % to La. Who has an seeder framan suitable? In They wanson Verturnan Mine at Sudbury - & underection May Saot the flatening

 $\sim$ 

October 17, 1919.

Mr. W. O. Manson, Rocky Mountain Club of New York, 65 West 44th Street, New York Oity.

Doar Sir:-

I have received your letter of October

13 and have noted the contents of same.

Is not the deposit you mention some-

what like the Vormillion Mine at Sudbury? I understand they save the platinum.

Yours very truly,

Asst. to Mr. Edison.

25.

Rocky Mountain Club Mr I de Meadowerft Can .: a Edison Crange If. Ann Sin Ref - your 17th will state am Hasting to Two monthly concentration awaging 4 og Platin - 40 % Coffee. This come at of a Gubbo diske I has Dome relationship bit & Bornets Drawt a flant on the ground to mot the could on a Dave making Concentration at a loss of 25% bender a Cose of 25% 2- shifting here. Que you suggest a fear Can harness vooo HP. Elishis. Cant give him any W. o Manam advice of Value on a plant &

, pi

October 23,1919.

Mr. W. O. Manson, Rocky Mountain Club, 65 West 44th Street, New York, N.Y.

Doar Sir:-

Your letter of October 20th was received. I showed it to Er. Edison, and he regrets that he cannot give you advice of any value on such a plant as you have in mind.

Yours very truly,

Assistant to Mr. Edison.

A/8061.

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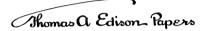
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